CFS-W435S

SERVICE MANUAL

E Model
East European Model

Model Name Using Similar Mechanism	NEW
Tape Transport Mechanism Type	MF-W435

SPECIFICATIONS

Frequency range
- Saudi Arabia model
  - FM: 87.6 - 107 MHz
  - MW: 530 - 1,605 kHz
  - SW1: 2.3 - 7 MHz
  - SW2: 7 - 22 MHz
- E, United Arab Emirates model
  - FM: 87.6 - 108 MHz
  - MW: 530 - 1,605 kHz
  - SW1: 2.3 - 7 MHz
  - SW2: 7 - 22 MHz
- East European model
  - FM: 87.6 - 107 MHz
  - MW: 531 - 1,602 kHz
  - SW1: 2.3 - 7 MHz
  - SW2: 7 - 22 MHz

Aerials
- FM/SW: Telescopic
- MW: Built-in ferrite bar

Recording system
- 4-track, 2-channel stereo

Frequency response
- 80 - 8,000 Hz

Speakers
- Two way
- Approx. 10 cm dia. woofer × 2
- Approx. 2 cm dia. tweeter × 2

Output
- Headphones jack (stereo minijack) (1)
  - for 8 - 300 ohm impedance headphones

Maximum power output
- 5 W (2.5 W+2.5 W)

Power requirements
- East European model
  - 220 - 230 V AC, 50 Hz
- Other model
  - 110 - 120/220 - 240 V AC, 50/60 Hz selectable
  - 9 V DC, six R20 (size D) batteries

Power consumption
- 14 W in AC operation

Batteriy life

Batteriy	FM recording
Sony SUM-1 (NS)	Approx. 8.5 hours
Sony AM1 (N) alkaline	Approx. 24 hours

Dimensions
- Approx. 680 × 216 × 188 mm (w/h/d) incl. projecting parts and controls, not incl. handle

Mass
- Approx. 5.8 kg incl. batteries

Accessory supplied
- Mains lead (1)

Design and specifications are subject to change without notice.

使用時は添付資料も参照のこと
Refer to the additional documents

RADIO CASSETTE-CORDER

SONY®

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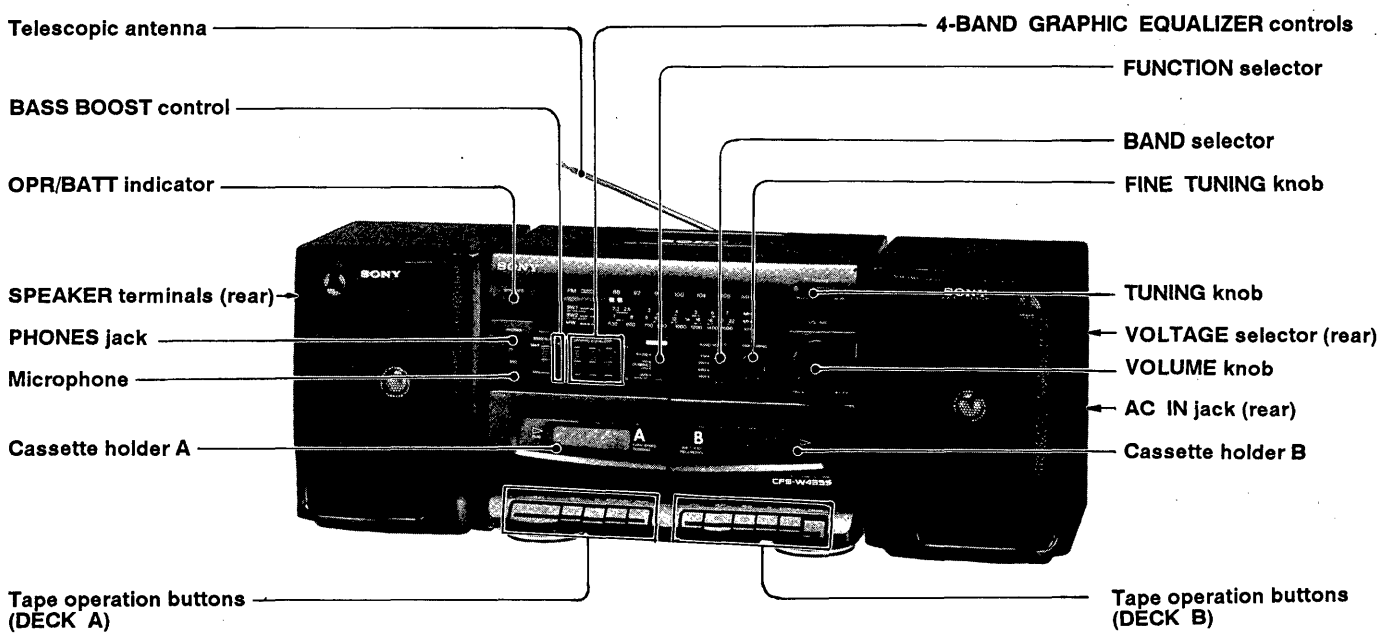
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1
GENERAL

LOCATION AND FUNCTION OF CONTROLS

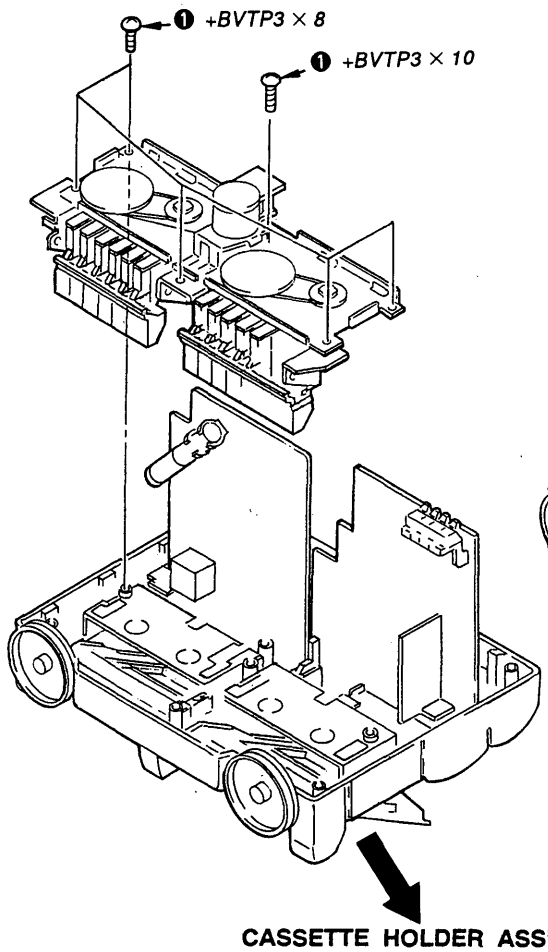


SECTION 2
DISASSEMBLY

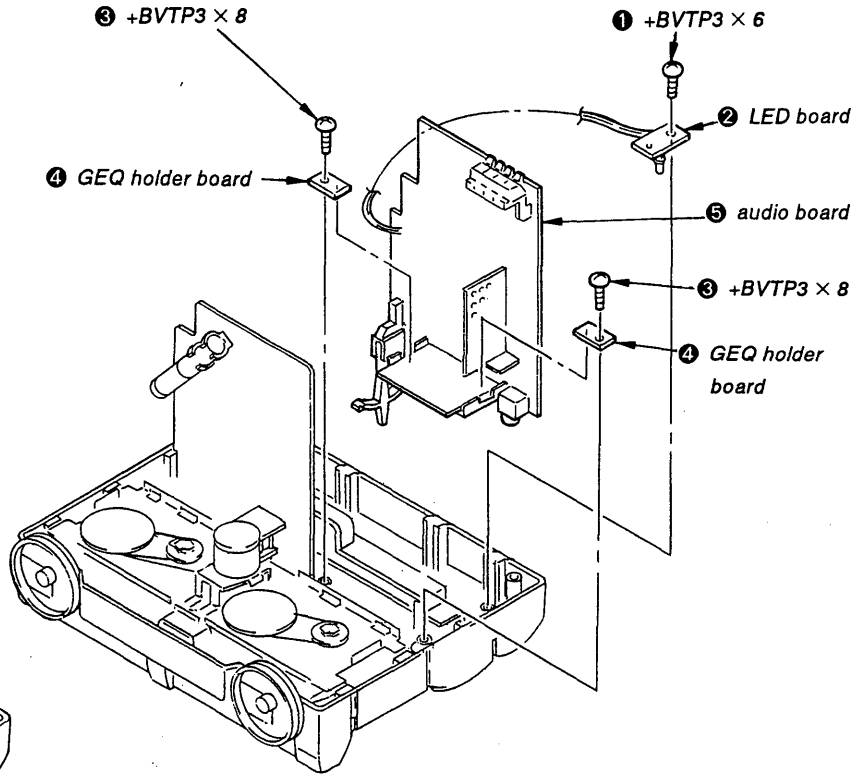
Note: Follow the disassembly procedure in the numerical order given.

Remove rear cabinet ass'y by removing 5 screws +P3 × 25

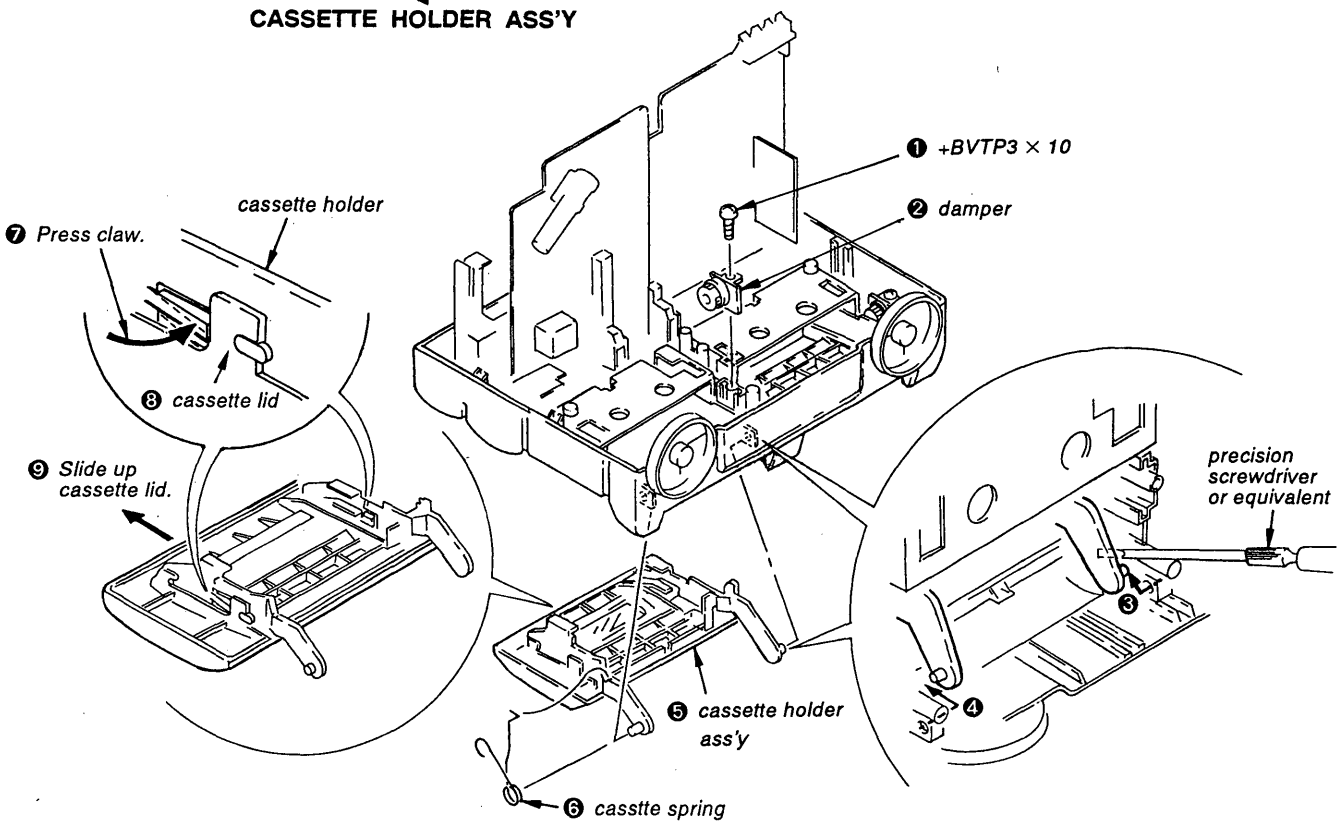
MD ASS'Y



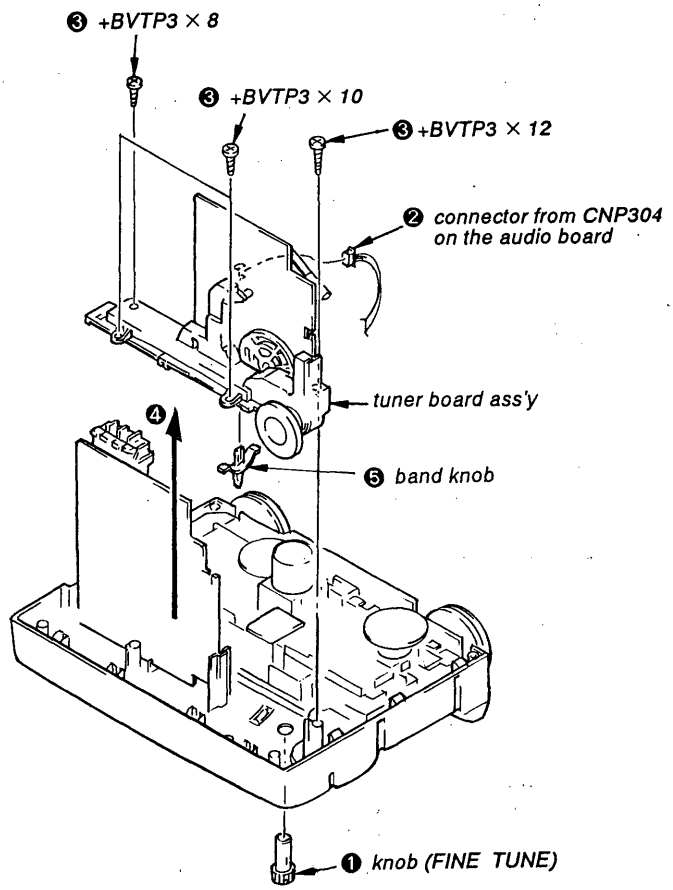
AUDIO BOARD



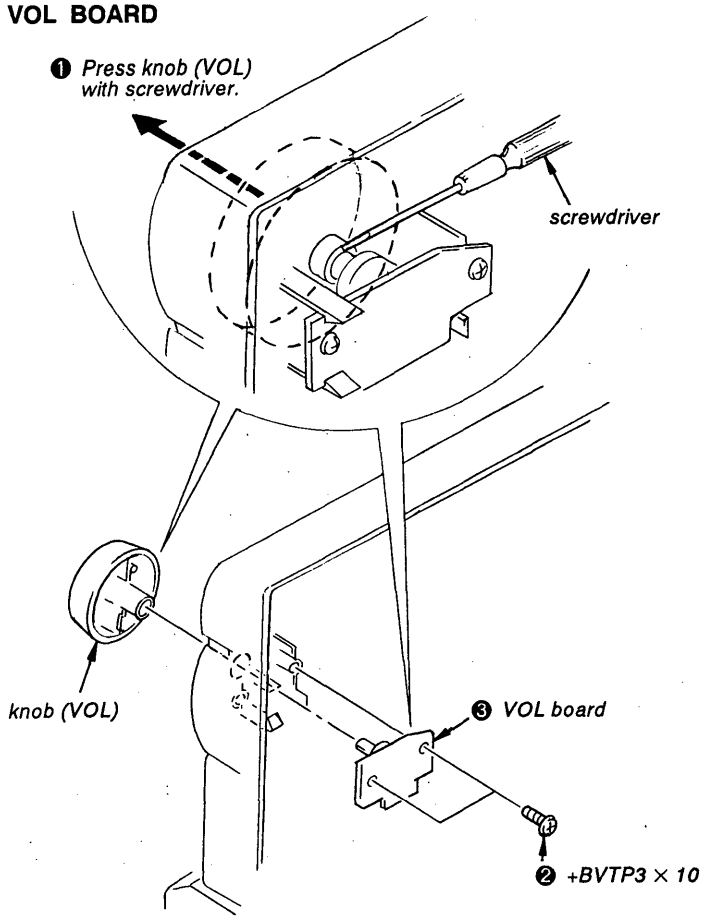
CASSETTE HOLDER ASS'Y



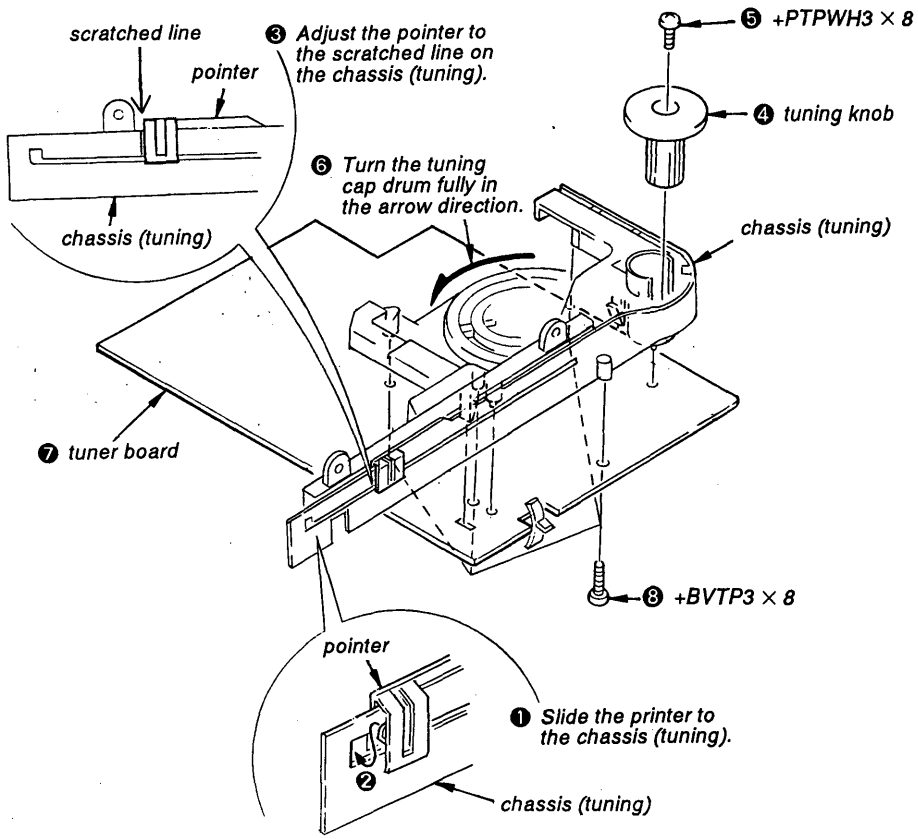
TUNER BOARD ASS'Y



VOL BOARD



POINTER SETTING


scratched line
pointer
chassis (tuning)
❸ Adjust the pointer to the scratched line on the chassis (tuning).
❺ +PTPWH3 × 8
❹ tuning knob
❻ Turn the tuning cap drum fully in the arrow direction.
chassis (tuning)
❼ tuner board
❽ +BVTP3 × 8
pointer
❶ Slide the printer to the chassis (tuning).
❷
chassis (tuning)

SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:
   record/playback head — pinch roller
   erase head — rubber belts
   capstan — idlers
2. Demagnetize the record/playback head with a head demagentizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement DECK A DECK B

Mode	Torque Meter	Meter Reading
Playback	CQ-102C	30 – 70 g•cm (0.42 – 0.97 oz•inch)
Back tension	CQ-102C	1.5 – 5.5 g•cm (0.021 – 0.076 oz•inch)
Rewind	CQ-201B	Deck-A: More than 80g•cm (More than 1.12 oz•inch) Deck-B: More than 55g•cm (More than 0.76 oz•inch)
Fast foward		

Tape Tension Measurement DECK A DECK B

Tension Meter	Meter Reading
CQ-403A	more than 100 g (3.53 oz)

3-2. ELECTRICAL ADJUSTMENTS

TAPE SECTION

1. The adjustments should be performed in the order given in the service manual. (As a general rule. Playback circuit adjustment should be completed before performing recording circuit adjustment.)
2. The adjustments should be performed for both L-ch and R-ch unless otherwise indicated.

- Switch position
  FUNCTION ····· TAPE (RADIO OFF)
  GRAPHIC EQUALIZER ····· center click
  BALANCE ····· center click
  VOLUME ····· mechanical center
  BASS BOOST ····· mechanical center

- **Standard input level**

	MIC IN
Source impedance	300 Ω
Input level	3.085 mV (– 48 dB)

- **Standard output level**

	SP OUT	PHONES
Load impedance	3.2 Ω	32 Ω
Output level	0.775 V (0 dB)	0.25 V (– 10 dB)

- **Test Tape**

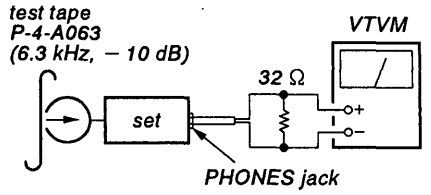
Type	Signal	Used for
WS-48B	3 kHz, 0 dB	tape speed adjustment
P-4-A063	6.3 kHz, – 10 dB	azimuth speed adjustment

0 dB=0.775 V

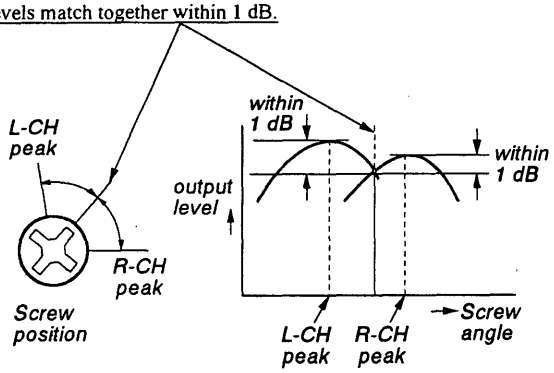
Record/Playback Head Azimuth Adjustment DECK A DECK B

Procedure:

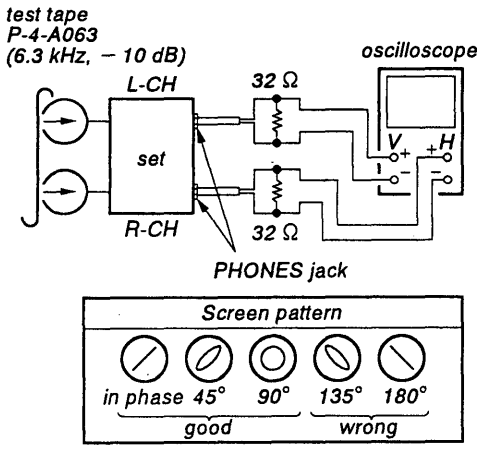
1. Mode: playback



2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1 dB.



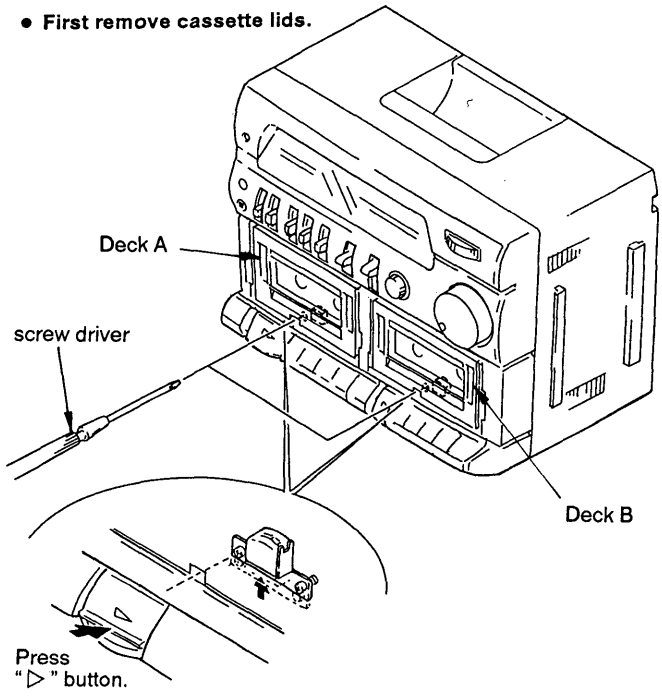
3. Phase Check
Mode: playback



4. After the adjustment, lock the screws with locking compound.

Adjustment Location:

- **First remove cassette lids.**

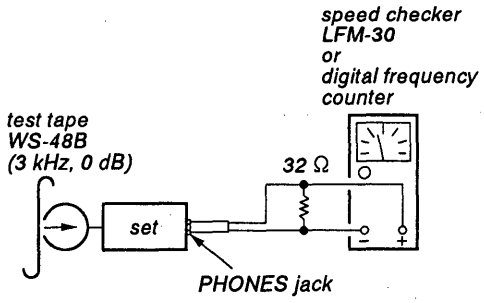


Tape Speed Adjustment

DECK A

Setting:
Mode: playback

Procedure:



Adjustment Values:

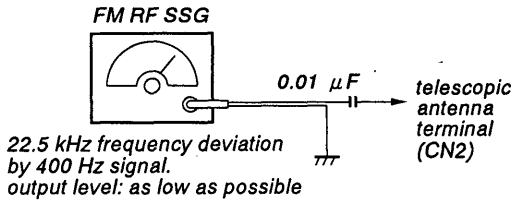
Adjustment part	Speed checker	Digital frequency counter
RV303	± 3%	2,970 to 3,000 Hz

Frequency difference between the beginning and the end of the tape should be within 1.5% (45 Hz).
Note: On high speed, Adjustment is not reguired.

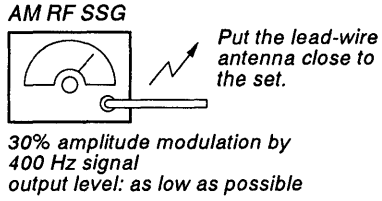
Adjustment Location: Audio board

TUNER SECTION

[FM]

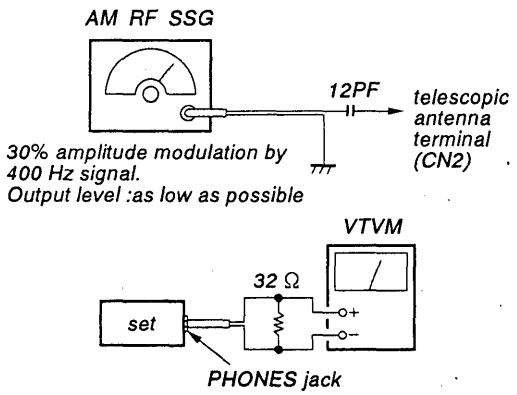


[MW]


AM RF SSG
Put the lead-wire antenna close to the set.
30% amplitude modulation by
400 Hz signal
output level: as low as possible

[SW]

FINE TUNE ..... Mechanical center



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.
- ( ): Saudi Arabia model [ ]: East European model

FM IF ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
T7	10.7 MHz

FM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L2	86.5 MHz (87.35 MHz) [64 MHz]
TC2	109.5 MHz (107.8 MHz) [109.5 MHz]

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L1	86.5 MHz (87.35 MHz) [68 MHz]
TC1	109.5 MHz (107.8 MHz) [102 MHz]

AM IF ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
T6	455 kHz

MW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
T5	520 kHz
TC4	1680 kHz

MW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
ANT1	620 kHz
TC3	1400 kHz

SW1 FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
T3	2.2 MHz
CT1	7.4 MHz

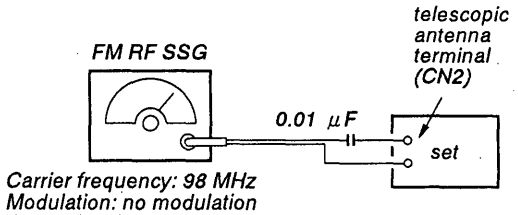
SW1 TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
T1	2.2 MHz

SW2 FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
T4	6.8 MHz
CT2	22.4 MHz

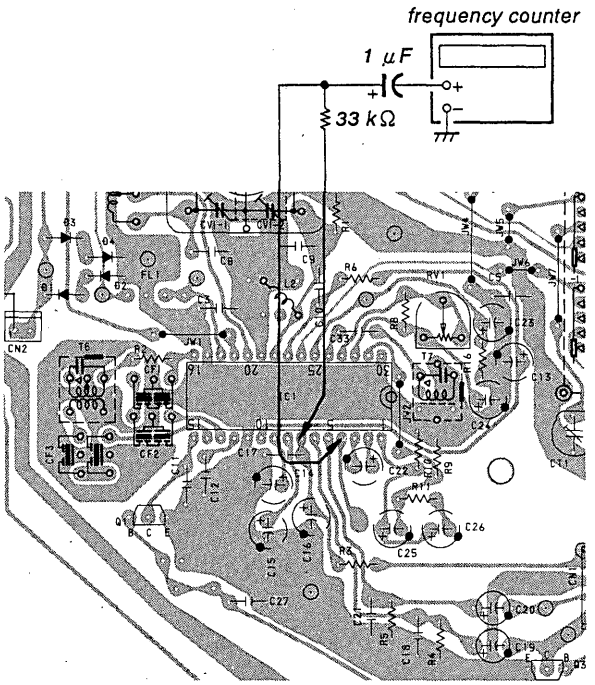
SW2 TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
T2	6.8 MHz

VCO Adjustment

Procedure:

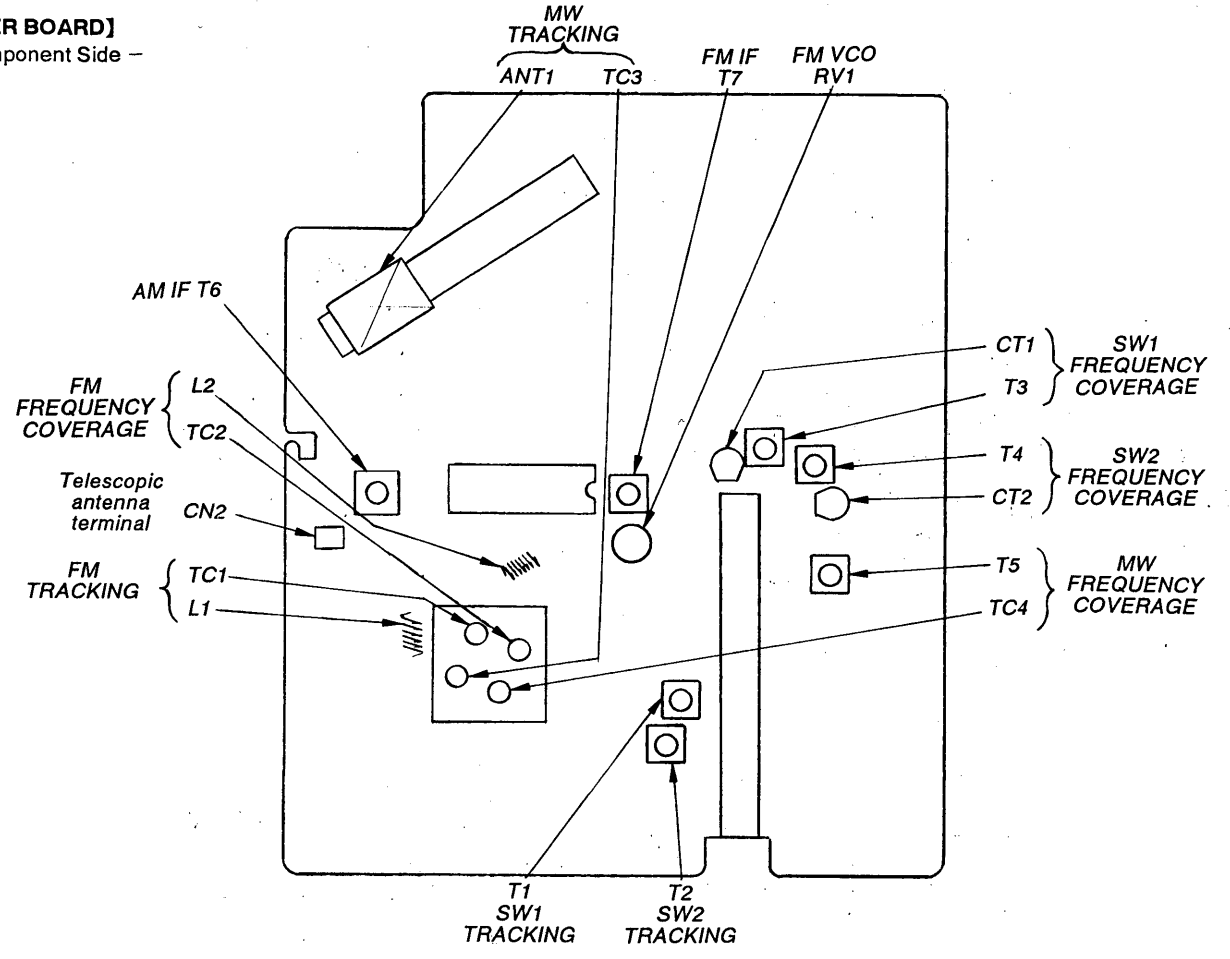


1. Connect frequency counter to ④ and ⑦ pins of IC1 as shown the figure below.
2. Tune the set to 98 MHz.
3. Adjust RV1 for 76 kHz ± 500 Hz reading on the frequency counter.

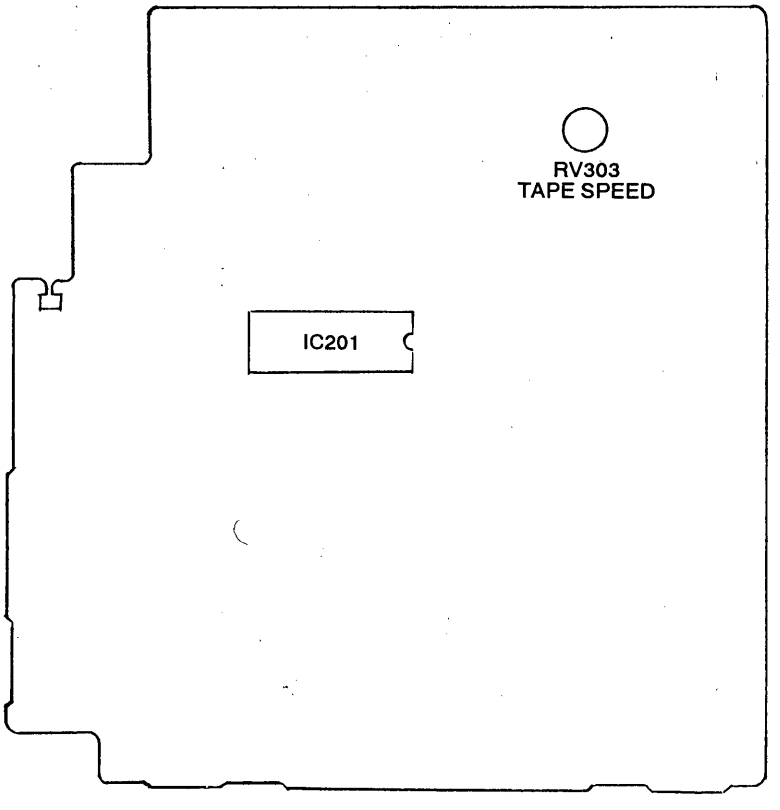


• **Adjusting Location**

[TUNER BOARD]
– Component Side –

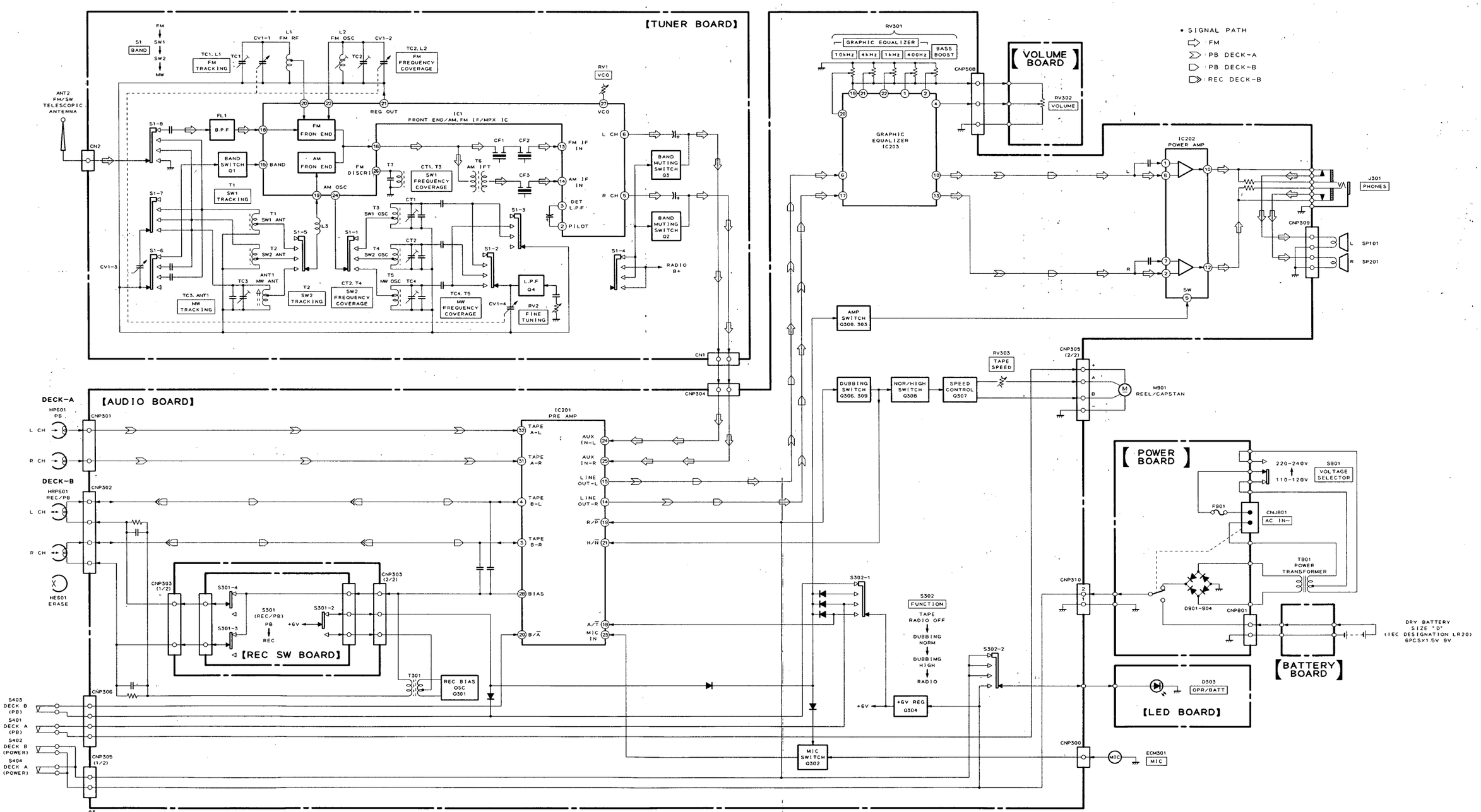


[AUDIO BOARD] – Component Side –



SECTION 4
DIAGRAMS

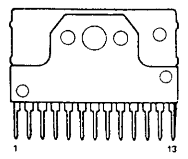
4-1. BLOCK DIAGRAM



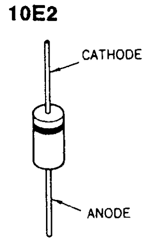
4-2. PRINTED WIRING BOARDS

• Semiconductor Lead Layouts

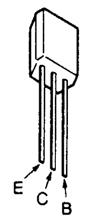
LA4597



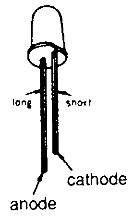
1N4148M
10E2



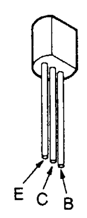
DTA114YS
DTC114ES
2SC4048



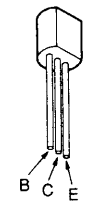
SLP-181B-51



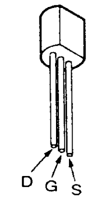
2SC1815-GR
2SD734-F



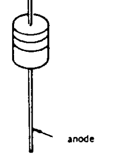
2SC3330-T



2SK105A-30



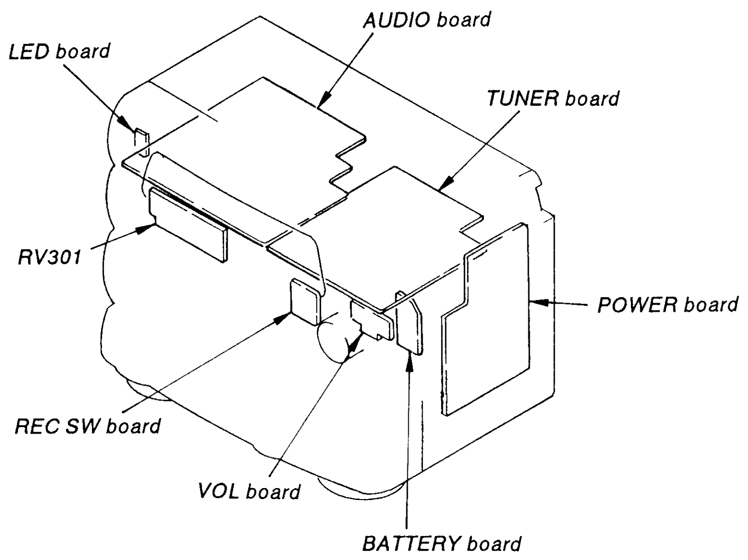
RD6.8ES-B2



• Semiconductor Location

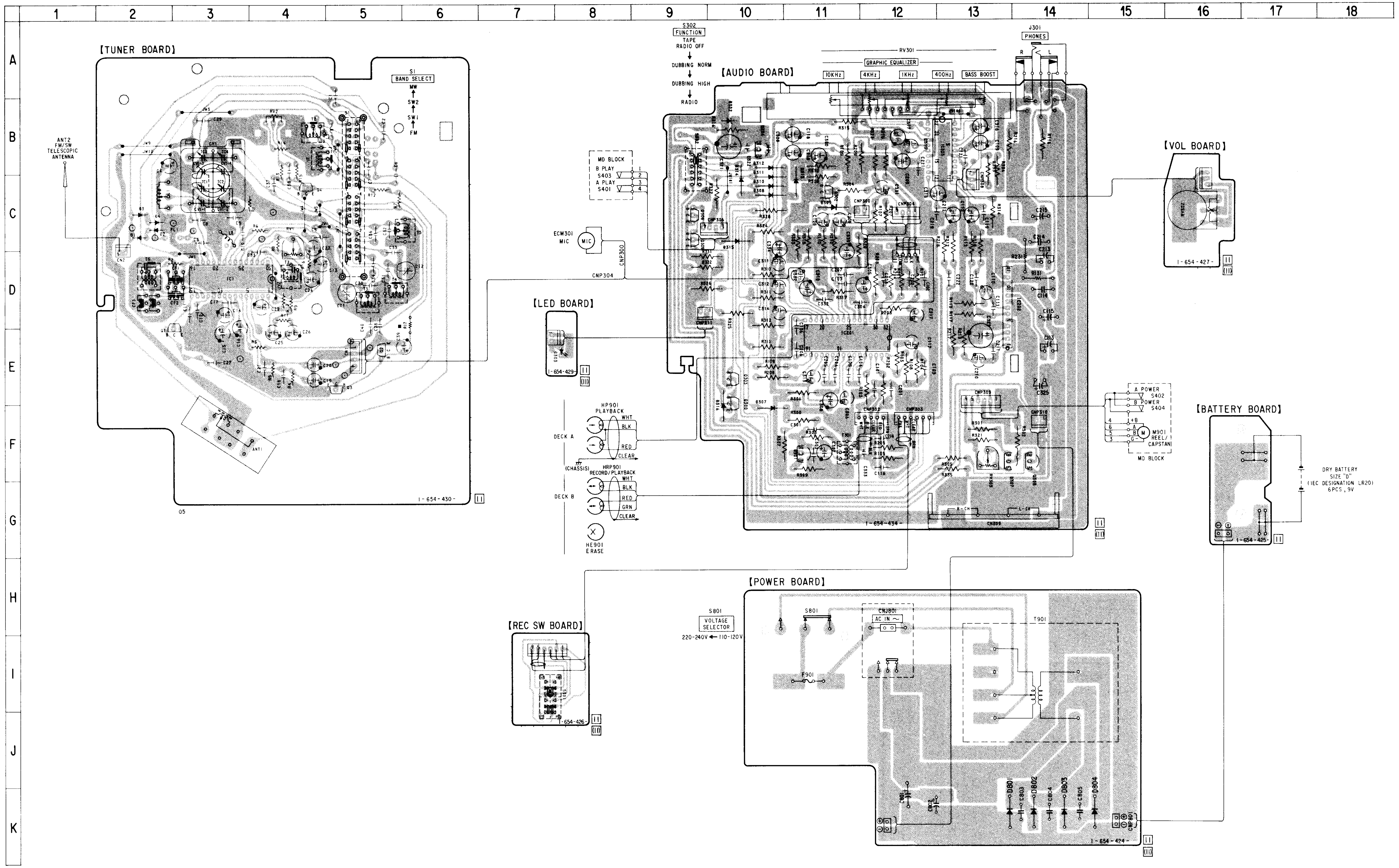
Ref. No.	Location
D1	C-2
D2	C-2
D3	C-2
D4	C-2
D302	B-10
D303	E-8
D307	F-10
D308	C-10
D309	C-11
D310	C-10
D311	C-10
D312	B-10
D313	C-11
D314	C-10
D315	C-10
D316	F-10
D801	K-13
D802	K-14
D803	K-14
D804	K-15
IC1	D-3
IC201	E-11
IC202	D-13
IC203	B-13
Q1	E-3
Q2	E-5
Q3	E-5
Q4	C-4
Q300	F-10
Q301	F-11
Q302	C-11
Q303	E-10
Q304	B-10
Q306	C-9
Q307	F-13
Q308	F-14
Q309	C-9

• Circuit Boards Location



Note:

- ○——— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- [ ]← : indicates side identified with part number.
- △ : internal component.


[TUNER BOARD]
S1 BAND SELECT
MW
SW2
SW1
FM
ANT2 FM/SW TELESCOPIC ANTENNA
1-654-430-
S302 FUNCTION
TAPE RADIO OFF
DUBBING NORM
DUBBING HIGH
RADIO
[AUDIO BOARD]
RV301
GRAPHIC EQUALIZER
10KHz
4KHz
1KHz
400Hz
BASS BOOST
J301 PHONES
MD BLOCK
B PLAY S403
A PLAY S401
ECM301 MIC
CNP300
CNP304
[LED BOARD]
1-654-429-
HP901 PLAYBACK
DECK A
(CHASSIS)
HRP901 RECORD/PLAYBACK
DECK B
HE901 ERASE
1-654-434-
[VOL BOARD]
1-654-427-
A POWER S402
B POWER S404
M901 REEL/CAPSTAN
MD BLOCK
[BATTERY BOARD]
DRY BATTERY SIZE "D" (IEC DESIGNATION LR20) 6PCS, 9V
1-654-425-
[REC SW BOARD]
1-654-426-
[POWER BOARD]
S801 VOLTAGE SELECTOR
220-240V ← 110-120V
CNJ801 AC IN
T901
F901
1-654-424-

4-3. SCHEMATIC DIAGRAM • See page 19 for IC Block Diagrams.

TUNER BOARD
IC1
CXA1238S
FRONT END/AM, FM IF/MPX
ANT2
FM/SW
TELESCOPIC ANTENNA
ANT1, TC3
MW TRACKING
BPF
T1
SW1 TRACKING
T2
SW2 TRACKING
CT1, T3
SW1 FREQUENCY COVERAGE
CT2, T4
SW2 FREQUENCY COVERAGE
TC4, T5
MW FREQUENCY COVERAGE
TC1, L1
FM TRACKING
TC2, L2
FM FREQUENCY COVERAGE
S1
BAND SELECT
FM
SW1
SW2
MW
RV2
100k (1B)
FINE TUNING
Q4
2SC1815GR
L.P.F
Q1
2SC4048
10K:47K
BAND SWITCH
Q2, 3
BAND MUTING SWITCH
VCO
REC SWBOARD
S301
REC
PB
DECK B
DECK A
HE901
ERASE
HRP901
RECORD/PLAY BACK
HP901
PLAY BACK
(CHASSIS)
AUDIO BOARD
IC201
PRE AMPLIFIER
BA3423S
IC203
GRAPHIC EQUALIZER
CXA1352AS
BASS BOOST
400Hz
1KHz
4KHz
10KHz
GRAPHIC EQUALIZER
RV301
IC202
POWER AMP
LA4597
VOL BOARD
RV302 50k
VOLUME
SP101
SPEAKER
LEFT
SPEAKER
RIGHT
INPEDANCE 3.2Ω
SP201
SPEAKER
J301
PHONES
DRY BATTERY
SIZE"D"
(IEC DESIGNATION LR20)
6PCS 9V
BATTERY BOARD
ECM301
MIC
Q301
2SC3330-T
REC BIAS OSC
T301
TAPE OSC
Q302
MIC SWITCH
Q304
2SD734-F
6V REG
Q300, 303
AMP SWITCH
LED BOARD
D303
SLP-181B
DRP/BATT
POWER BOARD
T901
POWER TRANSFORMER
S801
VOLTAGE SELECTOR
220-240V ⟷ 110-120V
F901
T125mAL
CNJ801
AC IN~
*PUSH UP IF AC PLUG INSERTED
D801-804
10E2
RV303
TAPE SPEED
Q307
SPEED CONTROL
Q306, 309
DUBBING SWITCH
Q308
2SC3330-T
NOR/HIGH SWITCH
S302
FUNCTION
TAPE
RADIO OFF
DUBBING NORM
DUBBING HIGH
RADIO
M901
(REEL/CAPSTAN)
MD BLOCK
A PLAY
B PLAY
A REW/FF
B REW/FF

Note:

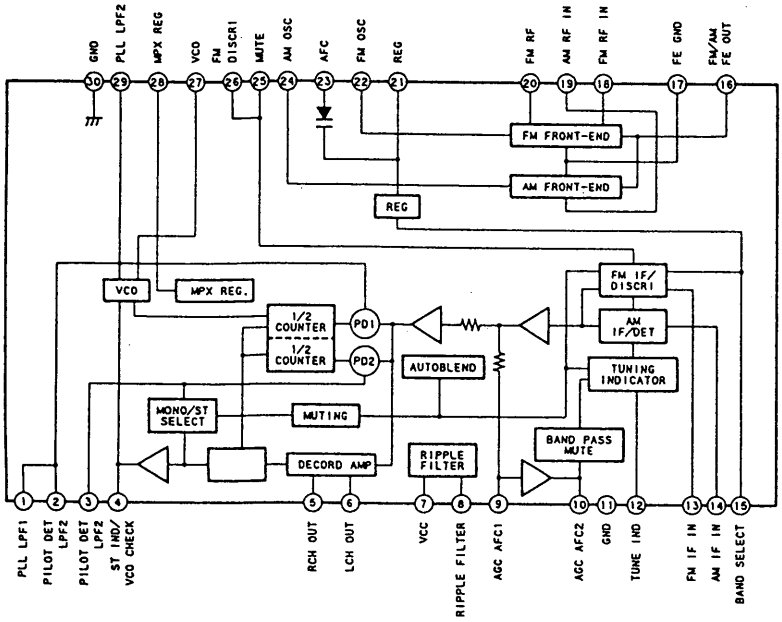
- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- △ : internal component.

> **Note:** The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
> Replace only with part number specified.

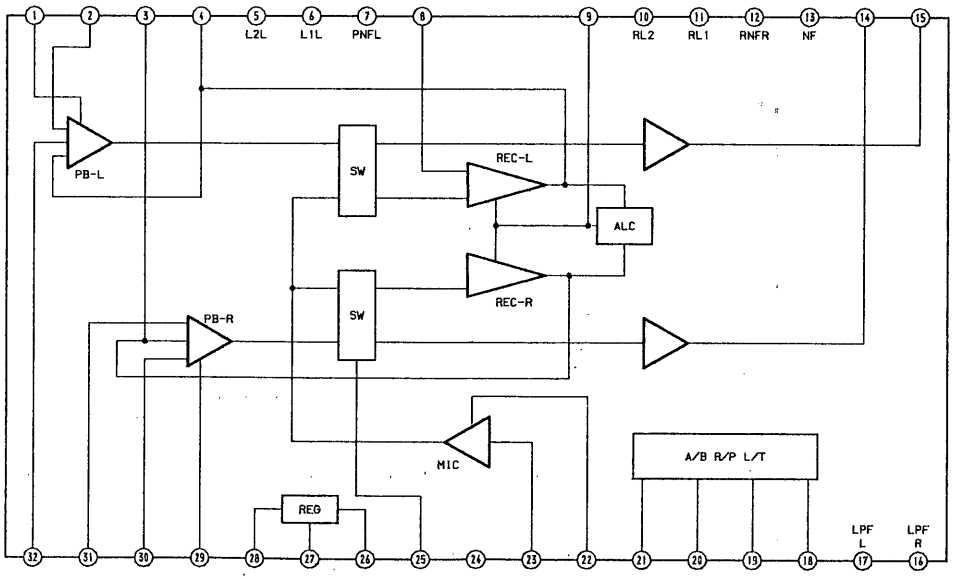
- [B+] : B + Line.
- (box) : panel designation.
- (bold box) : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM (Common)
  ( ) : AM (MW, SW)
  《 》: REC (Deck-B)
  [ ] : PB (Deck-B)
- Voltages are taken with a VOM (10 MΩ/V).
  Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
  ▷ : PB (DECK B)
  ▷》 : REC (DECK B)
- Abbreviation
  EA : Saudi Arabia model
  EE : East European model
  UAE : United Arab Emirates model

• IC Block Diagrams

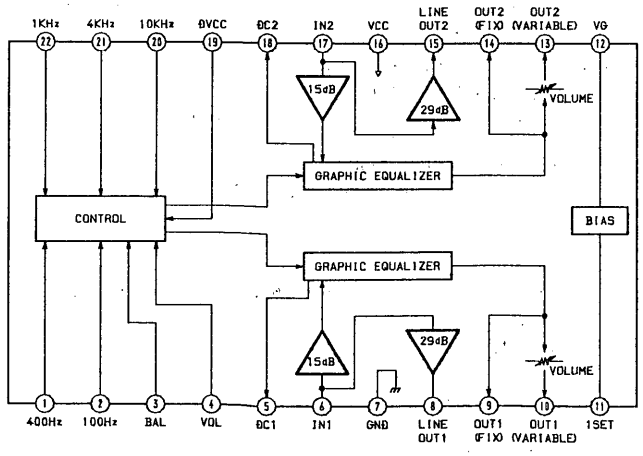
IC1 CXA1238S



IC201 BA3423S



IC203 CXA1352AS



SECTION 5
EXPLODED VIEWS

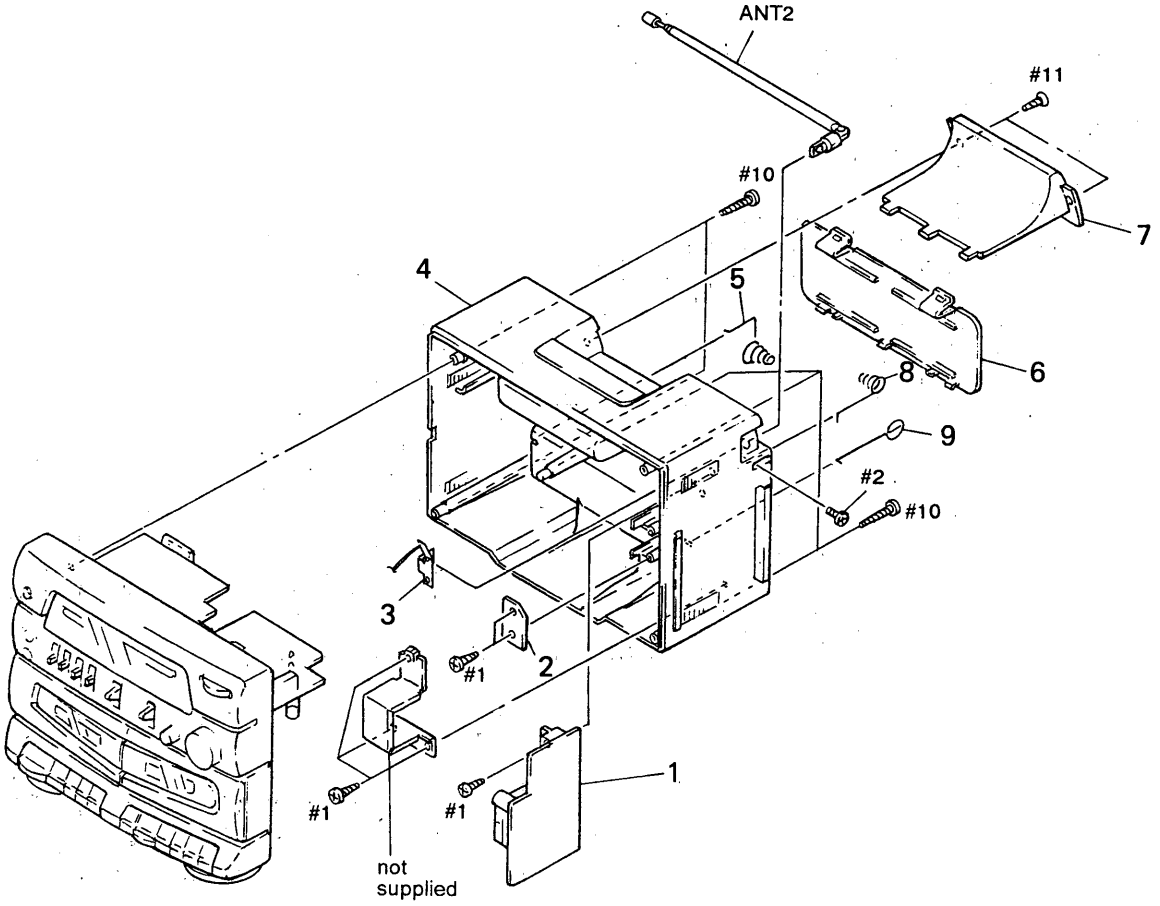
NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

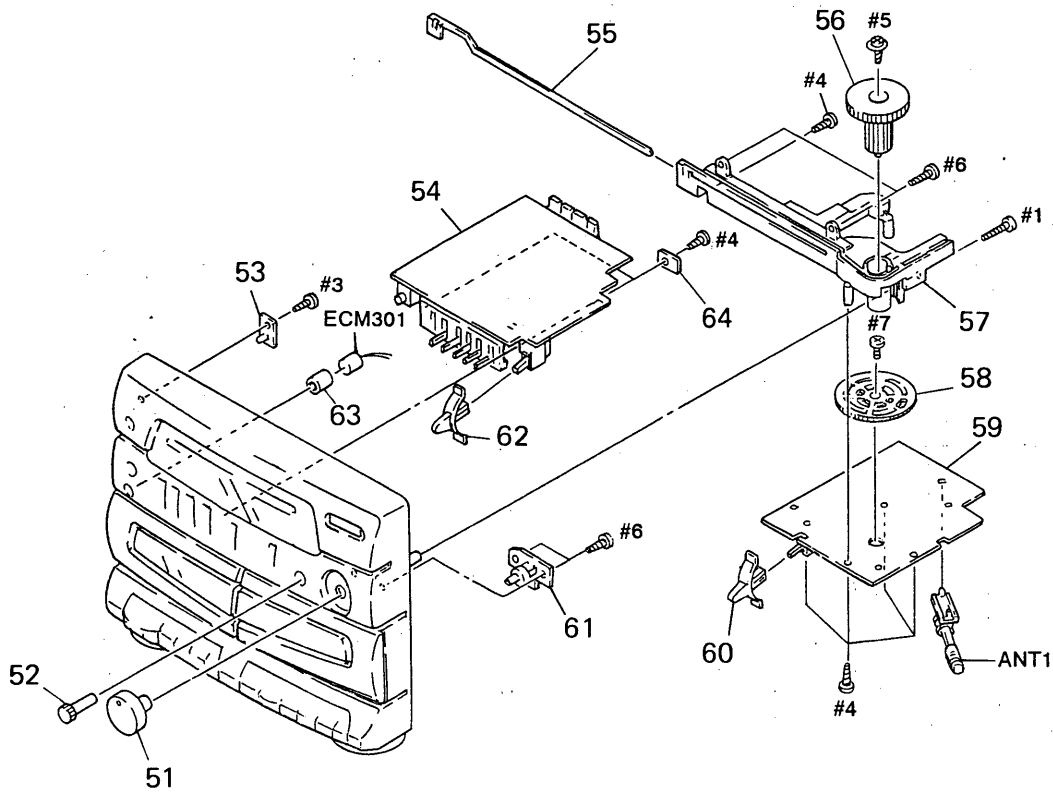
- Abbreviation
  EA : Saudi Arabia model
  UAE : United Arab Emirates model

(1) REAR CABINET ASSEMBLY SECTION



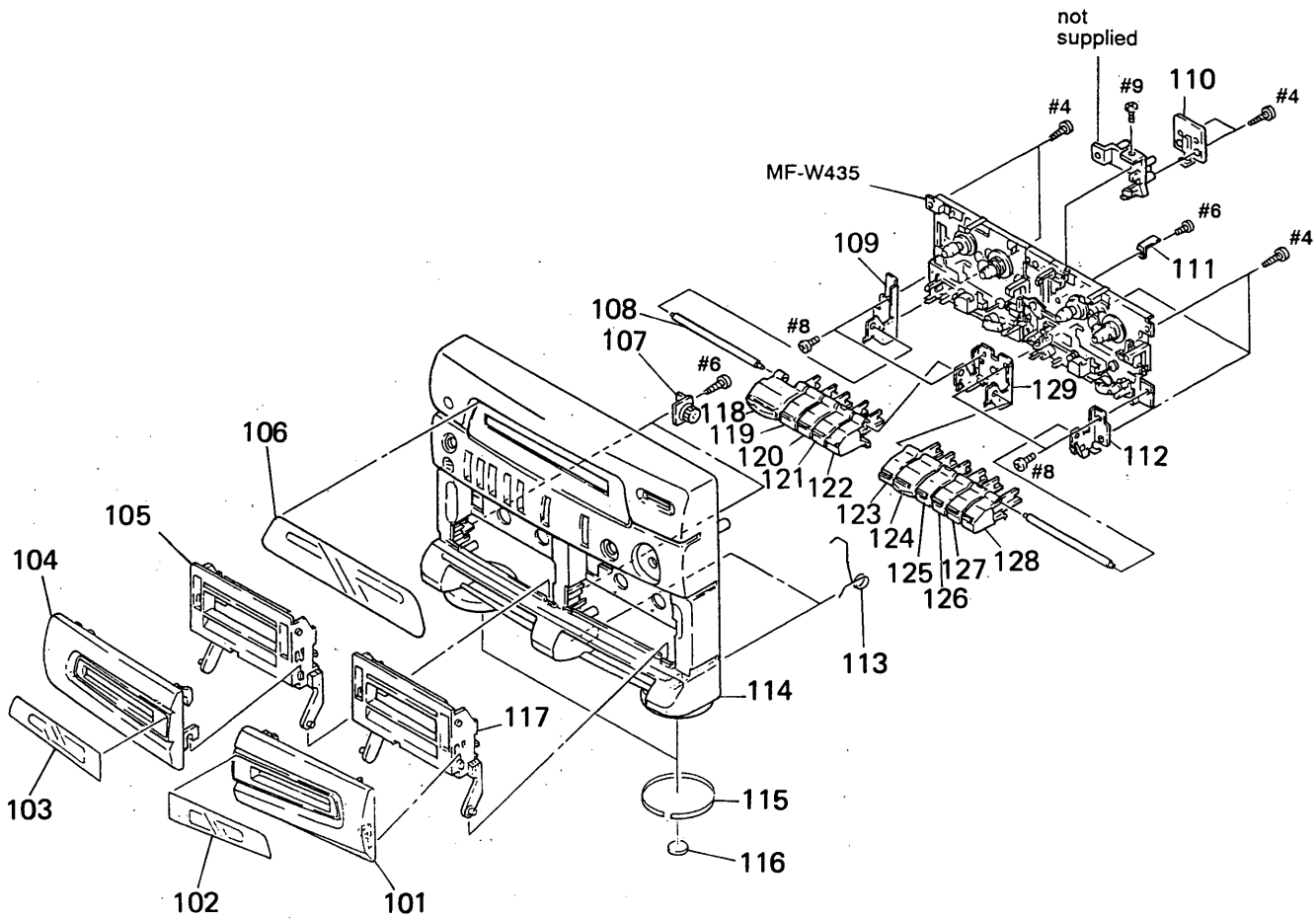
Ref. No.	Part No.	Description	Remark
* 1	1-654-424-11	POWER BOARD	
* 2	1-654-425-11	BATTERY BOARD	
3	3-918-507-01	TERMINAL BOARD, ANTENNA	
4	3-918-449-01	CABINET REAR (E, East European)	
4	3-918-449-11	CABINET REAR (EA, UAE)	
5	3-918-654-01	TERMINAL (+, -), BATTERY	
6	3-918-472-01	LID, BATTERY CASE	
7	3-918-477-01	HANDLE, COVER	
8	3-918-656-01	TERMINAL (-), BATTERY	
9	3-918-655-01	TERMINAL (+), BATTERY	
ANT2	1-501-668-11	ANTENNA, TELESCOPIC (FM/SW)	

(2) CIRCUIT BOARDS SECTION



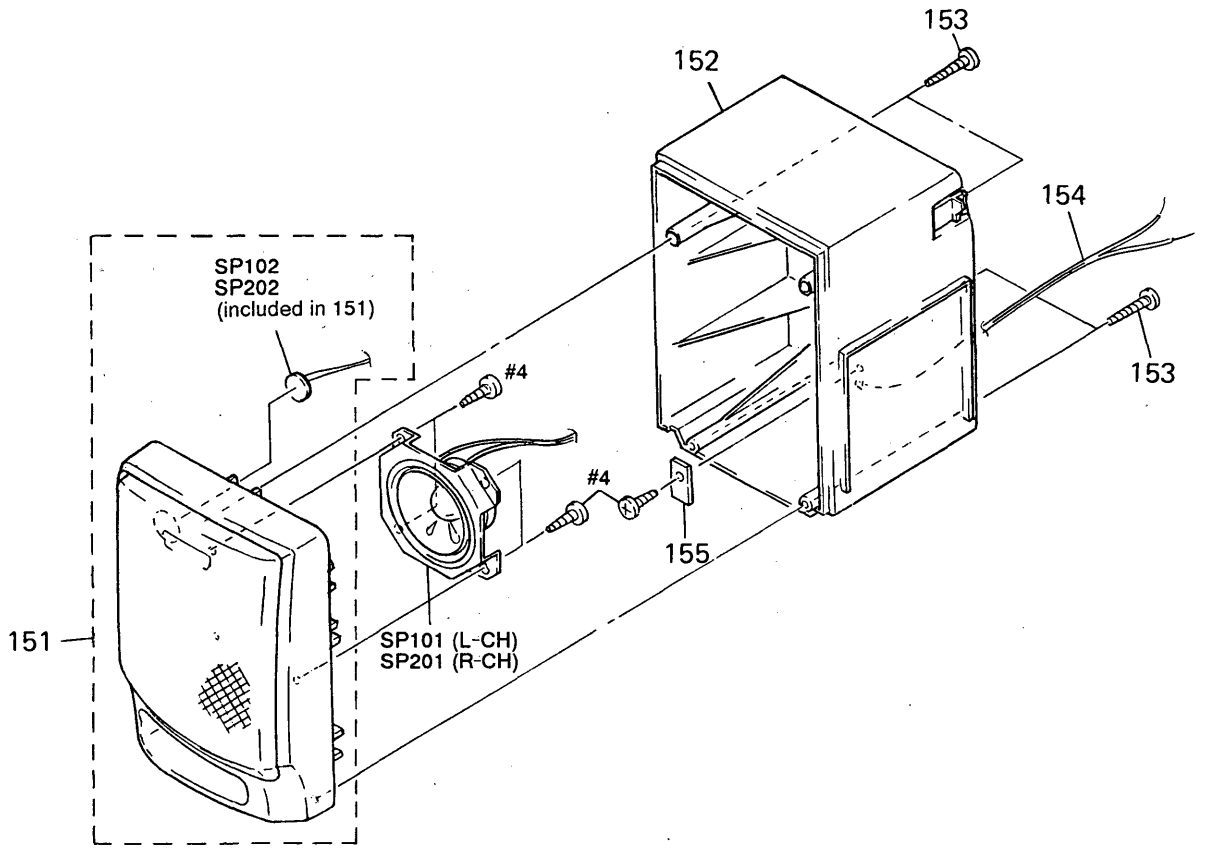
Ref. No.	Part No.	Description	Remark
51	3-364-526-01	KNOB (VOL)	
52	3-913-093-01	KNOB (FINE TUNE)	
* 53	1-654-429-11	LED BOARD	
* 54	A-3269-743-A	AUDIO BOARD, COMPLETE	
55	3-918-452-01	POINTER	
56	3-918-456-01	KNOB, TUNING	
* 57	3-918-455-01	CHASSIS (TUNING)	
58	3-918-457-01	DRUM, TUNING CAP	
* 59	A-3269-738-A	TUNER BOARD, COMPLETE (EA)	
* 59	A-3269-745-A	TUNER BOARD, COMPLETE (E, UAE)	
* 59	A-3305-010-A	TUNER BOARD, COMPLETE (East European)	
60	3-918-458-01	KNOB, BAND	
* 61	1-654-427-11	VOL BOARD	
62	3-918-459-01	KNOB, FUNCTION	
* 63	3-918-516-01	CUSHION, MICROPHONE	
* 64	1-654-520-11	GEQ HOLDER BOARD	
ANT1	1-402-507-11	ANTENNA FERRITE-RD (MW)	
ECM301	1-542-118-21	MICROPHONE, ELECTRET CONDENSER	

(3) FRONT PANEL ASSEMBLY SECTION



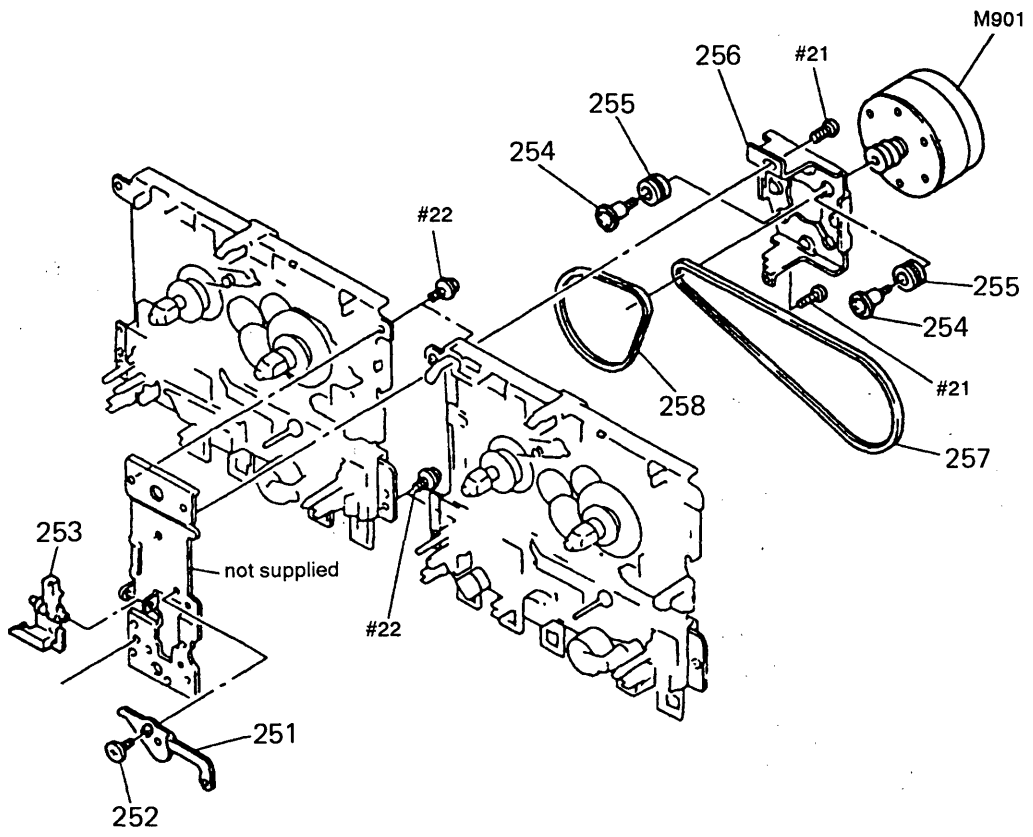
Ref. No.	Part No.	Description	Remark
101	3-918-451-01	LID, CASSETTE (R)	
102	3-918-514-01	WINDOW (R), CASSETTE	
103	3-918-515-01	WINDOW (L), CASSETTE	
104	3-918-450-01	LID, CASSETTE (L)	
105	3-918-453-01	HOLDER, CASSETTE (L)	
106	3-918-513-01	PANEL, DIAL (E, UAE)	
106	3-918-513-11	PANEL, DIAL (East European)	
106	3-918-633-01	PANEL, DIAL (EA)	
107	3-351-377-01	DAMPER	
* 108	3-918-512-01	SHAFT, MD	
* 109	3-918-510-01	HOLDER (L), BUTTON	
* 110	1-654-426-11	REC SW BOARDEC1	
111	3-918-501-01	LEVER, REC	
* 112	3-918-509-01	HOLDER (R), BUTTON	
113	3-918-502-01	SPRING, CASSETTE	
114	3-918-448-01	CABINET, FRONT	
115	3-919-203-01	SEAL, FOOT RING	
116	3-908-999-01	FOOT	
117	3-918-454-01	HOLDER, CASSETTE (R)	
118	3-918-461-01	BUTTON (PLAY 1)	
119	3-918-462-01	BUTTON (FF 1)	
120	3-918-463-01	BUTTON (REW 1)	
121	3-918-464-01	BUTTON (STOP. EJECT 1)	
122	3-918-465-01	BUTTON (PAUSE 1)	
123	3-918-466-01	BUTTON (REC)	
124	3-918-467-01	BUTTON (PLAY 2)	
125	3-918-468-01	BUTTON (FF 2)	
126	3-918-469-01	BUTTON (REW 2)	
127	3-918-470-01	BUTTON (STOP. EJECT 2)	
128	3-918-471-01	BUTTON (PAUSE 2)	
* 129	3-918-511-01	HOLDER (S), BUTTON	

(4) SPEAKER SECTION



Ref. No.	Part No.	Description	Remark
151	A-3303-310-A	BOX (FRONT) (L) SUB ASSY, SPEAKER (L-CH)	
151	A-3303-313-A	BOX (FRONT) (R) SUB ASSY, SPEAKER (R-CH)	
152	3-907-635-01	BOX (REAR) (L), SP (L-CH)	
152	3-907-636-01	BOX (REAR) (R), SP (R-CH)	
153	3-325-679-31	SCREW, TAPPING +BV 3X14	
154	1-690-969-11	CORD, SPEAKER CONNECTION	
* 155	1-654-435-11	WIRE HOLDER BOARD	
SP101	1-544-742-11	SPEAKER (10CM) (L-CH)	
SP201	1-544-742-11	SPEAKER (10CM) (R-CH)	

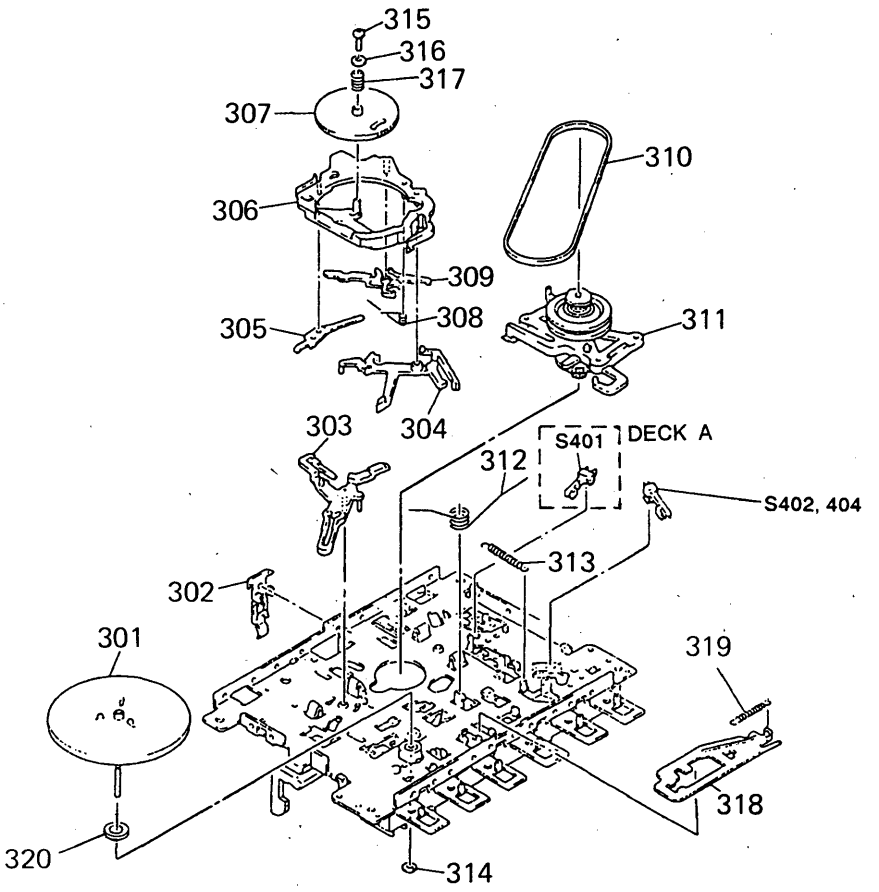
(5) MECHANISM DECK SECTION-1 (MF-W435)



Ref. No.	Part No.	Description	Remark
* 251	3-369-927-01	ARM, CONNECT	
252	3-362-958-01	SCREW	
253	3-369-928-01	ARM, RELEASE	
254	3-343-896-01	SCREW, MOTOR	
255	3-343-897-01	WASHER, RUBBER	

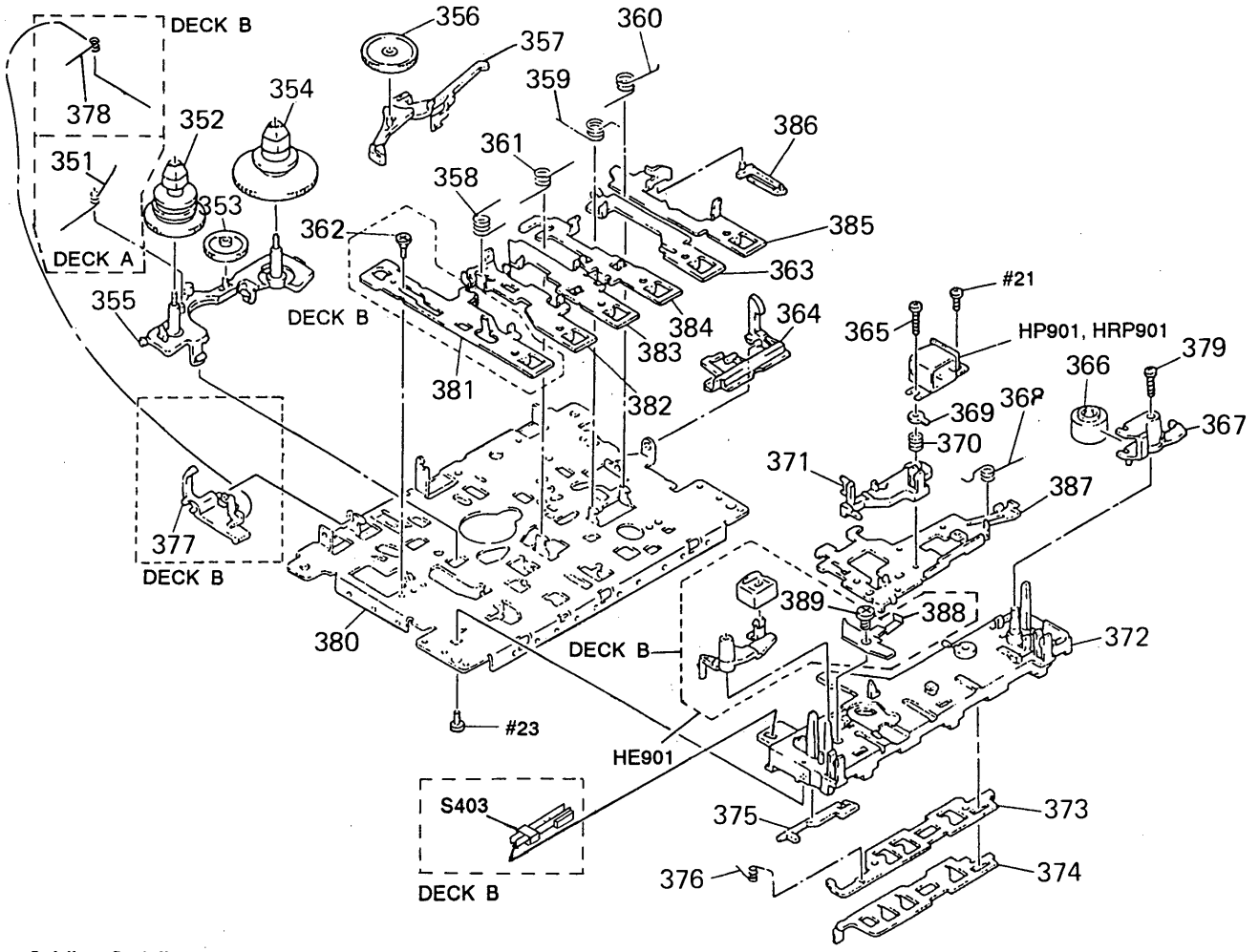
Ref. No.	Part No.	Description	Remark
* 256	3-918-742-01	HOLDER, MOTOR	
257	3-369-931-01	BELT	
258	3-918-743-01	BELT	
M901	3-378-834-01	MOTOR ASSY (REEL/CAPSTAN)	

(6) MECHANISM DECK SECTION-2 (MF-W435)



Ref. No.	Part No.	Description	Remark
301	3-369-921-01	FW ASSY	
302	3-918-744-01	SPRING, CASSETTE	
303	3-387-697-01	SENSOR	
304	3-362-975-01	LEVER, SENSOR	
305	3-362-978-01	SPRING, PLATE	
306	3-362-973-01	AS (BASE)	
307	X-3363-315-1	GEAR, CAM	
308	3-362-977-01	SPRING	
309	3-362-976-01	LEVER, CONTROL	
310	3-918-734-01	BELT	
311	3-362-969-01	IDLER ASSY, PF	
312	3-362-970-01	SPRING	
313	3-362-971-01	SPRING	
314	3-362-980-01	WASHER	
315	3-366-352-01	SCREW	
316	3-369-961-01	WASHER	
317	3-369-962-01	SPRING, COMPRESSION	
* 318	3-371-919-01	PLATE FR STOP (DECK B)	
319	3-918-738-01	SPRING	
320	3-918-736-01	WASHER	
S401	1-571-745-11	SWITCH, LEAF (PLAY) (DECK A)	
S402	1-571-556-11	SWITCH, LEAF (POWER) (DECK A)	
S404	1-571-556-11	SWITCH, LEAF (POWER) (DECK B)	

(7) MECHANISM DECK SECTION-3 (MF-W435)



Ref. No.	Part No.	Description	Remark
351	3-372-120-01	SPRING (DECK A)	
352	X-3363-611-1	REEL, S	
353	3-362-965-01	IDLER, FF	
354	3-362-962-01	REEL ASSY, T	
355	3-362-961-01	SPINDLE (BASE)	
356	3-362-960-01	PULLEY, IDLER	
357	3-362-959-01	ARM, IDLER	
358	3-362-954-01	SPRING	
359	3-362-956-01	SPRING	
360	3-918-733-01	SPRING	
361	3-362-955-01	SPRING	
362	3-362-958-01	SCREW	
* 363	3-362-951-01	LEVER, SE	
364	3-362-968-01	LEVER, EJECT	
365	3-363-229-01	SCREW	
366	3-362-982-01	PINCH ROLLER	
367	3-362-981-01	PINCH ARM	
368	3-362-983-01	SPRING	
369	3-390-817-01	LUG	
370	3-362-985-01	SPRING	
371	3-362-986-01	HOLDER, HEAD	
372	3-362-942-01	FRAME ASSY	

Ref. No.	Part No.	Description	Remark
* 373	3-362-943-01	PLATE, FUNCTION	
* 374	3-362-946-01	LEVER, SW	
375	3-362-944-01	STOPPER, REC	
376	3-362-945-01	SPRING	
377	3-362-966-01	INTER LOCK (DECK B)	
378	3-918-735-01	SPRING	
379	3-366-352-01	SCREW	
* 380	3-362-941-01	CHASSIS	
* 381	3-362-947-01	LEVER, REC (DECK B)	
* 382	3-362-948-01	LEVER, PLAY	
* 383	3-362-949-01	LEVER, REW	
* 384	3-362-950-01	LEVER, FF	
* 385	3-362-952-01	LEVER, PAUSE	
386	3-362-953-01	ARM, PAUSE	
* 387	3-362-984-01	HEAD (BASE)	
* 388	3-918-739-01	PLATE, SWITCH	
389	3-918-740-01	SCREW	
HE901	3-918-737-01	HEAD ASSY, E (DECK B)	
HP901	1-543-424-21	HEAD (PLAYBACK) (DECK A)	
HRP901	1-543-424-21	HEAD (RECORD/PLAYBACK) (DECK B)	
S403	1-571-556-11	SWITCH, LEAF (PLAY) (DECK B)	

SECTION 6
ELECTRICAL PARTS LIST

AUDIO

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH
- Abbrevistion
  EA : Saudi Arabia model
  UAE: United Arab Emirates model

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref.No.	Part No.	Description			Remark
*	A-3269-743-A	AUDIO BOARD, COMPLETE			
		**********			
	3-918-459-01	KNOB, FUNCTION			
*	3-918-508-01	HEAT SINK			
		< CAPACITOR >			
C101	1-162-293-31	CERAMIC	820PF	10%	50V
C102	1-162-294-31	CERAMIC	0.001uF	10%	50V
C103	1-162-840-11	CERAMIC	0.012uF	10%	16V
C104	1-162-290-31	CERAMIC	470PF	10%	50V
C105	1-162-832-11	CERAMIC	0.0027uF	10%	16V
C106	1-161-041-00	CERAMIC	0.0015uF	10%	50V
C107	1-162-282-31	CERAMIC	100PF	10%	50V
C108	1-124-902-00	ELECT	0.47uF	20%	50V
C109	1-124-902-00	ELECT	0.47uF	20%	50V
C110	1-124-477-11	ELECT	47uF	20%	25V
C111	1-162-282-31	CERAMIC	100PF	10%	50V
C112	1-124-927-11	ELECT	4.7uF	20%	100V
C113	1-126-101-11	ELECT	100uF	20%	16V
C114	1-130-495-00	MYLAR	0.1uF	5%	50V
C115	1-126-927-11	ELECT	2200uF	20%	6.3V
C116	1-162-293-31	CERAMIC	820PF	10%	50V
C117	1-124-477-11	ELECT	47uF	20%	25V
C118	1-124-927-11	ELECT	4.7uF	20%	100V
C119	1-162-844-11	CERAMIC	0.027uF	10%	16V
C121	1-162-282-31	CERAMIC	100PF	10%	50V
C122	1-162-839-11	CERAMIC	0.01uF	10%	16V
C201	1-162-293-31	CERAMIC	820PF	10%	50V
C202	1-162-294-31	CERAMIC	0.001uF	10%	50V
C203	1-162-840-11	CERAMIC	0.012uF	10%	16V
C204	1-162-290-31	CERAMIC	470PF	10%	50V
C205	1-162-832-11	CERAMIC	0.0027uF	10%	16V
C206	1-161-041-00	CERAMIC	0.0015uF	10%	50V
C207	1-162-282-31	CERAMIC	100PF	10%	50V
C208	1-124-902-00	ELECT	0.47uF	20%	50V
C209	1-124-902-00	ELECT	0.47uF	20%	50V
C210	1-124-477-11	ELECT	47uF	20%	25V
C211	1-162-282-31	CERAMIC	100PF	10%	50V
C212	1-124-927-11	ELECT	4.7uF	20%	100V
C213	1-126-101-11	ELECT	100uF	20%	16V
C214	1-130-495-00	MYLAR	0.1uF	5%	50V
C215	1-126-927-11	ELECT	2200uF	20%	6.3V
C216	1-162-293-31	CERAMIC	820PF	10%	50V
C217	1-124-477-11	ELECT	47uF	20%	25V
C218	1-124-927-11	ELECT	4.7uF	20%	100V
C219	1-162-844-11	CERAMIC	0.027uF	10%	16V
C221	1-162-282-31	CERAMIC	100PF	10%	50V
C222	1-162-839-11	CERAMIC	0.01uF	10%	16V
C300	1-124-927-11	ELECT	4.7uF	20%	100V
C301	1-161-045-00	CERAMIC	0.0033uF	10%	50V
C302	1-124-443-00	ELECT	100uF	20%	10V
C303	1-162-839-11	CERAMIC	0.01uF	10%	16V
C304	1-162-844-11	CERAMIC	0.027uF	10%	16V
C305	1-126-176-11	ELECT	220uF	20%	10V
C306	1-124-927-11	ELECT	4.7uF	20%	100V
C307	1-124-927-11	ELECT	47uF	20%	100V
C308	1-124-477-11	ELECT	47uF	20%	25V
C310	1-124-902-00	ELECT	0.47uF	20%	50V
C311	1-124-903-11	ELECT	1uF	20%	50V
C312	1-126-233-11	ELECT	22uF	20%	50V
C313	1-124-927-11	ELECT	4.7uF	20%	100V
C314	1-126-233-11	ELECT	22uF	20%	50V
C316	1-124-927-11	ELECT	4.7uF	20%	100V
C317	1-124-443-00	ELECT	100uF	20%	10V
C318	1-124-907-11	ELECT	10uF	20%	50V
C319	1-124-927-11	ELECT	4.7uF	20%	100V
C320	1-162-306-11	CERAMIC	0.01uF	30%	16V
C321	1-124-472-11	ELECT	470uF	20%	10V
C322	1-162-306-11	CERAMIC	0.01uF	30%	16V
C323	1-126-103-11	ELECT	470uF	20%	16V
C325	1-124-360-00	ELECT	1000uF	20%	16V
C330	1-126-176-11	ELECT	220uF	20%	10V
C331	1-124-477-11	ELECT	47uF	20%	25V
C332	1-162-847-11	CERAMIC	0.047uF	10%	16V
C333	1-130-469-00	MYLAR	680PF	5%	50V
C334	1-126-233-11	ELECT	22uF	20%	50V

AUDIO

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
* CNP300	1-580-154-11	PIN, CONNECTOR (PC BOARD) 2P	
CNP301	1-506-986-11	PIN, CONNECTOR (PC BOARD) 4P	
CNP302	1-506-987-11	PIN, CONNECTOR (PC BOARD) 5P	
* CNP303	1-580-158-11	PIN, CONNECTOR (PC BOARD) 6P	
CNP304	1-506-986-11	PIN, CONNECTOR (PC BOARD) 4P	
* CNP305	1-580-158-11	PIN, CONNECTOR (PC BOARD) 6P	
CNP306	1-506-986-11	PIN, CONNECTOR (PC BOARD) 4P	
* CNP307	1-580-154-11	PIN, CONNECTOR (PC BOARD) 2P	
* CNP308	1-580-155-11	PIN, CONNECTOR (PC BOARD) 3P	
CNP309	1-537-421-11	TERMINAL BOARD (SP)	
* CNP310	1-580-154-11	PIN, CONNECTOR (PC BOARD) 2P	
		< DIODE >	
D302	8-719-109-97	DIODE RD6.8ES-B2	
D307	8-719-987-63	DIODE 1N4148M	
D308	8-719-987-63	DIODE 1N4148M	
D309	8-719-987-63	DIODE 1N4148M	
D310	8-719-987-63	DIODE 1N4148M	
D311	8-719-987-63	DIODE 1N4148M	
D312	8-719-987-63	DIODE 1N4148M	
D313	8-719-987-63	DIODE 1N4148M	
D314	8-719-987-63	DIODE 1N4148M	
D315	8-719-987-63	DIODE 1N4148M	
D316	8-719-987-63	DIODE 1N4148M	
		< IC >	
IC201	8-759-048-59	IC BA3423S	
IC202	8-759-820-22	IC LA4597	
IC203	8-752-067-34	IC CXA1352AS	
		< JACK >	
J301	1-566-891-11	JACK (PHONES)	
		< TRANSISTOR >	
Q300	8-729-902-80	TRANSISTOR DTA114YS	
Q301	8-729-820-24	TRANSISTOR 2SC3330-T	
Q302	8-729-820-24	TRANSISTOR 2SC3330-T	
Q303	8-729-820-24	TRANSISTOR 2SC3330-T	
Q304	8-729-873-43	TRANSISTOR 2SD734-F	
Q306	8-729-900-89	TRANSISTOR DTC144ES	
Q307	8-729-115-30	TRANSISTOR 2SK105A-30	
Q308	8-729-820-24	TRANSISTOR 2SC3330-T	
Q309	8-729-902-80	TRANSISTOR DTA114YS	

Ref. No.	Part No.	Description				Remark
		< RESISTOR >				
R101	1-249-409-11	CARBON	220	5%	1/4W	F
R102	1-249-409-11	CARBON	220	5%	1/4W	F
R103	1-247-811-31	CARBON	150	5%	1/4W	
R104	1-247-889-00	CARBON	270K	5%	1/4W	
R105	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R106	1-247-855-11	CARBON	10K	5%	1/4W	
R107	1-247-847-11	CARBON	4.7K	5%	1/4W	
R108	1-247-847-11	CARBON	4.7K	5%	1/4W	
R109	1-249-422-11	CARBON	2.7K	5%	1/4W	F
R110	1-247-807-11	CARBON	100	5%	1/4W	
R112	1-247-847-11	CARBON	4.7K	5%	1/4W	
R113	1-247-811-31	CARBON	150	5%	1/4W	
R116	1-247-807-11	CARBON	100	5%	1/4W	
R117	1-247-839-11	CARBON	2.2K	5%	1/4W	
R118	1-249-417-11	CARBON	1K	5%	1/4W	F
R131	1-249-387-11	CARBON	3.3	5%	1/4W	
R201	1-249-409-11	CARBON	220	5%	1/4W	F
R202	1-249-409-11	CARBON	220	5%	1/4W	F
R203	1-247-811-31	CARBON	150	5%	1/4W	
R204	1-247-889-00	CARBON	270K	5%	1/4W	
R205	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R206	1-247-855-11	CARBON	10K	5%	1/4W	
R207	1-247-847-11	CARBON	4.7K	5%	1/4W	
R208	1-247-847-11	CARBON	4.7K	5%	1/4W	
R209	1-249-422-11	CARBON	2.7K	5%	1/4W	F
R210	1-247-807-11	CARBON	100	5%	1/4W	
R212	1-247-847-11	CARBON	4.7K	5%	1/4W	
R213	1-247-811-31	CARBON	150	5%	1/4W	
R216	1-247-807-11	CARBON	100	5%	1/4W	
R217	1-247-839-11	CARBON	2.2K	5%	1/4W	
R218	1-249-417-11	CARBON	1K	5%	1/4W	F
R231	1-249-387-11	CARBON	3.3	5%	1/4W	
R300	1-249-410-11	CARBON	270	5%	1/4W	F
R301	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R302	1-247-879-11	CARBON	100K	5%	1/4W	
R303	1-249-435-11	CARBON	33K	5%	1/4W	
R304	1-247-839-11	CARBON	2.2K	5%	1/4W	
R305	1-249-435-11	CARBON	33K	5%	1/4W	
R306	1-247-903-00	CARBON	1M	5%	1/4W	
R307	1-247-847-11	CARBON	4.7K	5%	1/4W	
R308	1-249-435-11	CARBON	33K	5%	1/4W	
R309	1-249-393-11	CARBON	10	5%	1/4W	F
R310	1-247-847-11	CARBON	4.7K	5%	1/4W	
R311	1-249-435-11	CARBON	33K	5%	1/4W	
R312	1-249-435-11	CARBON	33K	5%	1/4W	
R313	1-249-435-11	CARBON	33K	5%	1/4W	
R314	1-247-884-11	CARBON	160K	5%	1/4W	

Ref. No.	Part No.	Description			Remark
R315	1-249-385-11	CARBON	2.2	5%	1/6W F
R316	1-249-413-11	CARBON	470	5%	1/4W F
R317	1-249-417-11	CARBON	1K	5%	1/4W F
R318	1-249-417-11	CARBON	1K	5%	1/4W F
R319	1-249-385-11	CARBON	2.2	5%	1/6W F
R320	1-249-389-11	CARBON	4.7	5%	1/4W F
R321	1-249-428-11	CARBON	8.2K	5%	1/4W F
R322	1-249-426-11	CARBON	5.6K	5%	1/4W
R323	1-249-434-11	CARBON	27K	5%	1/4W
R324	1-247-847-11	CARBON	4.7K	5%	1/4W
R325	1-249-417-11	CARBON	1K	5%	1/4W F
R326	1-247-816-11	CARBON	240	5%	1/4W
R327	1-249-417-11	CARBON	1K	5%	1/4W F
R328	1-249-417-11	CARBON	1K	5%	1/4W F
R330	1-247-903-00	CARBON	1M	5%	1/4W
R331	1-249-411-11	CARBON	330	5%	1/4W
R332	1-249-416-11	CARBON	820	5%	1/4W F
R333	1-247-872-11	CARBON	51K	5%	1/4W
R334	1-247-870-11	CARBON	43K	5%	1/4W
R335	1-249-411-11	CARBON	330	5%	1/4W
		< VARIABLE RESISTOR >			
RV301	1-223-760-11	RES, VAR, SLIDE 50KX5 (BASS BOOST/GRAPHIC EQUALIZER)			
RV303	1-223-639-11	RES, ADJ, CARBON 2.2K			
		< SWITCH >			
S302	1-762-201-11	SWITCH, LEVER SLIDE (FUNCTION)			
		< TRANSFORMER >			
T301	1-433-346-11	TRANSFORMER, BIAS OSCILLATOR			
**********					
*	1-654-425-11	BATTERY BOARD **********			
**********					
*	1-654-429-11	LED BOARD *********			
		< DIODE >			
D303	8-719-038-29	DIODE SLP-181B-51 (ORP/BATT)			
**********					

Ref. No.	Part No.	Description			Remark
*	1-654-424-11	POWER BOARD **********			
	1-533-217-31	HOLDER, FUSE			
		< CAPACITOR >			
C801	1-124-360-00	ELECT	1000uF	20%	16V
C802	1-128-489-11	ELECT	3300uF	20%	16V
C803	1-161-494-00	CERAMIC	0.022uF		25V
C804	1-161-494-00	CERAMIC	0.022uF		25V
C805	1-161-494-00	CERAMIC	0.022uF		25V
		< JACK >			
⚠CNJ801	1-526-838-11	INLET, AC 2P (AC IN)			
		< CONNECTOR >			
* CNP801	1-580-154-11	PIN, CONNECTOR (PC BOARD) 2P			
		< DIODE >			
D801	8-719-200-02	DIODE 10E2			
D802	8-719-200-02	DIODE 10E2			
D803	8-719-200-02	DIODE 10E2			
D804	8-719-200-02	DIODE 10E2			
		< FUSE >			
⚠F901	1-532-611-00	FUSE (TO.125A 250V)			
		< SWITCH >			
⚠S801	1-552-921-00	SWITCH, POWER (VOLTAGE SELECTOR)			
		< TRANSFORMER >			
⚠T901	1-427-696-11	TRANSFORMER, POWER			
**********					
*	1-654-426-11	REC SW BOARD **********			
		< SWITCH >			
S301	1-572-325-11	SWITCH, SLIDE (REC/PLAY)			
**********					

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

TUNER

Ref. No.	Part No.	Description			Remark
*	A-3269-738-A	TUNER BOARD, COMPLETE (EA)			
		**********			
*	A-3269-745-A	TUNER BOARD, COMPLETE (E, UAE)			
		**********			
*	A-3305-010-A	TUNER BOARD, COMPLETE (East European)			
		**********			
		< ANTENNA >			
ANT1	1-402-507-11	ANTENNA, FERRITE-ROD (MW)			
		< CAPACITOR >			
C1	1-162-286-31	CERAMIC	220PF	10%	50V
C2	1-162-294-31	CERAMIC	0.001uF	10%	50V
C3	1-162-306-11	CERAMIC	0.01uF	30%	16V
C4	1-124-907-11	ELECT	10uF	20%	50V
C5	1-162-294-31	CERAMIC	0.001uF	10%	50V
C6	1-162-306-11	CERAMIC	0.01uF	30%	16V
C7	1-162-306-11	CERAMIC	0.01uF	30%	16V
C8	1-162-198-31	CERAMIC	8.2PF	10%	50V (East European)
C8	1-162-207-31	CERAMIC	22PF	5%	50V (E, UAE)
C8	1-162-210-31	CERAMIC	30PF	5%	50V (EA)
C9	1-102-947-00	CERAMIC	10PF	0.5PF	50V (East European)
C9	1-102-960-00	CERAMIC	24PF	5%	50V (E, UAE)
C9	1-102-962-00	CERAMIC	30PF	55	50V (EA)
C10	1-162-193-31	CERAMIC	3.3PF	10%	50V
C11	1-162-306-11	CERAMIC	0.01uF	30%	16V
C12	1-162-306-11	CERAMIC	0.01uF	30%	16V
C13	1-124-927-11	ELECT	4.7uF	20%	100V
C14	1-124-903-11	ELECT	1uF	20%	50V
C15	1-124-477-11	ELECT	47uF	20%	25V
C16	1-124-477-11	ELECT	47uF	20%	25V
C17	1-162-306-11	CERAMIC	0.01uF	30%	16V
C18	1-162-842-11	CERAMIC	0.0082uF	10%	16V
C19	1-124-902-00	ELECT	0.47uF	20%	50V
C20	1-124-902-00	ELECT	0.47uF	20%	50V
C21	1-162-842-11	CERAMIC	0.0082uF	10%	16V
C22	1-124-903-11	ELECT	1uF	20%	50V
C23	1-124-925-11	ELECT	2.2uF	20%	100V
C24	1-124-443-01	ELECT	100uF	20%	10V
C25	1-124-902-00	ELECT	0.47uF	20%	50V
C26	1-124-927-11	ELECT	4.7uF	20%	100V
C27	1-162-306-11	CERAMIC	0.01uF	30%	16V
C28	1-162-294-31	CERAMIC	0.001uF	10%	50V
C29	1-162-196-31	CERAMIC	5.6PF	10%	50V
C30	1-102-942-00	CERAMIC	5.0PF	+-0.5PF	50V
C31	1-102-942-00	CERAMIC	5.0PF	+-0.5PF	50V
C32	1-162-205-31	CERAMIC	18PF	5%	50V
C33	1-162-203-31	CERAMIC	15PF	5%	50V
C34	1-161-041-00	CERAMIC	0.0015uF	10%	50V
C35	1-162-835-11	CERAMIC	0.0047uF	10%	16V
C36	1-110-342-11	FILM	390PF	5%	63V
C37	1-162-196-31	CERAMIC	5.6PF	10%	50V
C38	1-162-306-11	CERAMIC	0.01uF	30%	16V
C39	1-124-902-00	ELECT	0.47uF	20%	50V
		< FILTER >			
CF1	1-567-390-11	FILTER, CERAMIC 10.7M			
CF2	1-567-390-11	FILTER, CERAMIC 10.7M			
CF3	1-567-670-11	FILTER, CERAMIC			
		< CONNECTOR >			
CN1	1-506-986-11	PIN, CONNECTOR (PC BOARD) 4P			
* CN2	1-580-154-11	PIN, CONNECTOR (PC BOARD) 2P			
		< TRIMMER >			
CT1	1-141-304-21	CAP, TRIMMER	10PF		
CT2	1-141-304-21	CAP, TRIMMER	10PF		
		< VARIABLE CAPACITOR >			
CV1 TC1-4	1-151-693-11	CAP, VAR (EXCEPT East European)			
CV1 TC1-4	1-151-710-11	CAP, VAR (East European)			
		< DIODE >			
D1	8-719-987-63	DIODE	1N4148M		
D2	8-719-987-63	DIODE	1N4148M		
D3	8-719-987-63	DIODE	1N4148M		
D4	8-719-987-63	DIODE	1N4148M		
		< FILTER >			
FL1	1-236-022-11	FILTER, BAND PASS (EXCEPT East European)			
FL1	1-239-831-11	FILTER, BAND PASS (East European)			
		< IC >			
IC1	8-752-050-20	IC CXA1238S			
		< COIL >			
L1	1-409-943-11	COIL, AIR-CORE (E, UAE)			
L1	1-409-968-11	COIL, AIR-CORE (EA)			
L1	1-411-261-11	COIL, AIR-CORE (East European)			
L2	1-409-969-11	COIL (WITH CORE) (EA)			
L2	1-411-262-11	COIL, AIR-CORE (East European)			

Ref. No.	Part No.	Description			Remark
L2	1-422-230-11	COIL, AIR-CORE (E, UAE)			
L3	1-410-499-41	INDUCTOR 1.5uH			
		< TRANSISTOR >			
Q1	8-729-806-30	TRANSISTOR 2SC4048			
Q2	8-729-806-30	TRANSISTOR 2SC4048			
Q3	8-729-806-30	TRANSISTOR 2SC4048			
Q4	8-729-281-53	TRANSISTOR 2SC1815-GR			
		< RESISTOR >			
R1	1-247-847-11	CARBON	4.7K	5% 1/4W	
R2	1-247-839-11	CARBON	2.2K	5% 1/4W	
R3	1-247-811-31	CARBON	150	5% 1/4W	
R4	1-249-427-11	CARBON	6.8K	5% 1/4W	F
R5	1-249-427-11	CARBON	6.8K	5% 1/4W	F
R6	1-247-879-11	CARBON	100K	5% 1/4W	
R7	1-249-423-11	CARBON	3.3K	5% 1/4W	F
R8	1-247-855-11	CARBON	10K	5% 1/4W	
R9	1-247-887-00	CARBON	220K	5% 1/4W	
R10	1-247-887-00	CARBON	220K	5% 1/4W	
R11	1-247-839-11	CARBON	2.2K	5% 1/4W	
R12	1-249-409-11	CARBON	220	5% 1/4W	F
R13	1-247-879-11	CARBON	100K	5% 1/4W	
R14	1-249-434-11	CARBON	27K	5% 1/4W	
R15	1-247-847-11	CARBON	4.7K	5% 1/4W	
R16	1-247-879-11	CARBON	100K	5% 1/4W	
R17	1-249-411-11	CARBON	330	5% 1/4W	
		< VARIABLE RESISTOR >			
RV1	1-223-641-11	RES, ADJ, CARBON 22K			
RV2	1-223-693-11	RES, VAR, CARBON 100K (FINE TUNING)			
		< SWITCH >			
S1	1-571-503-11	SWITCH, LEVER SLIDE (BAND SELECT)			
		< TRANSFORMER >			
T1	1-402-456-31	COIL (ANT)			
T2	1-402-539-11	COIL (ANT)			
T3	1-406-299-11	COIL (OSC)			
T4	1-406-470-11	COIL (OSC)			
T5	1-406-253-11	COIL (OSC)			
T6	1-404-355-00	TRANSFORMER, IF			
T7	1-409-944-11	COIL (DET)			

****

Ref. No.	Part No.	Description	Remark
*	1-654-427-11	VOL BOARD	
		*********	
		< VARIABLE RESISTOR >	
RV302	1-223-761-11	RES, VAR, CARBON 50K (VOLUME)	

****

MISCELLANEOUS

****

154	1-690-969-01	CORD, SPEAKER CONNECTOR	
ANT2	1-501-668-11	ANTENNA, TELESCOPIC (FM/SW)	
ECM301	1-542-118-21	MICROPHONE, ELECTRET CONDENSER	
HE901	3-918-737-01	HEAD ASSY, E (DECK B)	
HP901	1-543-424-21	HEAD (PLAYBACK) (DECK A)	
HRP901	1-543-424-21	HEAD (RECORD/PLAYBACK) (DECK B)	
M901	3-378-834-01	MOTOR ASSY (REEL/CAPSTAN)	
S401	1-571-745-11	SWITCH, LEAF (PLAY) (DECK A)	
S402	1-571-556-11	SWITCH, LEAF (POWER) (DECK B)	
S403	1-571-556-11	SWITCH, LEAF (PLAY) (DECK B)	
S404	1-571-556-11	SWITCH, LEAF (POWER) (DECK A)	
SP101	1-544-742-11	SPEAKER (10CM) (L-CH)	
SP201	1-544-742-11	SPEAKER (10CM) (R-CH)	

****

ACCESSORIES & PACKING MATERIALS

****

⚠	1-559-048-31	CORD, POWER (E:110-120V AC AREA)
⚠	1-569-007-11	ADAPTER, CONVERSION 2P (E:110-120V AC AREA)
⚠	1-569-008-11	ADAPTER, CONVERSION 2P (EA)
⚠	1-769-412-11	CORD, POWER (E:220-240V AC AREA, EA, UAE, East European)
	3-759-569-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH) (E, EA, UAE)
	3-759-569-41	MANUAL, INSTRUCTION (POLISH, ENGLISH, GERMAN, RUSSIAN) (East European)
	3-759-569-51	MANUAL, INSTRUCTION (CZECK, HUNGARIAN) (East European)
	3-918-498-01	INDIVIDUAL CARTON
*	3-918-499-01	CUSHION (TOP)
*	3-918-500-01	CUSHION (BOTTOM)

****

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remark

****
HARDWARE LIST
****

#1	7-685-648-79	SCREW, TAPPING +BV 3X12
#2	7-685-548-09	SCREW +P 3X8
#3	7-685-645-79	SCREW +BVTP 3X6 TYPE2 SLIT
#4	7-685-646-79	SCREW, TAPPING +BV 3X8
#5	7-685-903-21	SCREW +PTPWH 3X8 (TYPE2)
#6	7-685-647-79	SCREW, TAPPING +BV 3X10
#7	7-621-770-67	SCREW +P 2.6X6
#8	7-685-133-19	SCREW +P 2.6X6 TYPE2 SLIT
#9	7-685-131-19	SCREW +P 2.6X4 TYPE2 SLIT
#10	7-685-152-19	SCREW +P 3X25 TYPE2 NON-SLIT
#11	7-685-245-19	SCREW +KTP 3X6 TYPE2 NON-SLIT
#21	7-621-255-25	SCREW +PTT 2X4 (S)
#22	7-621-773-86	SCRTEWTOTSU PTTWH 2.6X4
#23	7-685-104-19	SCREW +P 2X6 TYPE2 NON-SLIT

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